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62,64  
**FLOWERS and VEGETABLES**  
*Spring, 1948*

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SEEDS  
Department of Agriculture



**BINDING-STEVEN'S SEED COMPANY**  
Perfection Brand Garden, Flower and Field Seeds

First and Boulder  
TULSA

1004 North Lewis  
SPRING, 1948

7244 Sand Spring Road  
OKLAHOMA





# Choice of Millions for Lawns, Flowers, Shrubs and Trees!

Vigoro has been used year after year with fine results by millions of home gardeners. It is their choice for everything they grow!

A product of Swift & Company, Vigoro is complete plant food . . . ideal for grass and for flowers, shrubs, trees and your vegetable garden. It is clean, sanitary, odorless and easy to use! Include Vigoro on your seed order!

**VIGORO**  
COMPLETE PLANT FOOD  
A PRODUCT OF SWIFT

## Good News for Gardeners . . . from the makers of VIGORO!



### CONTROL OF MOST LAWN WEEDS AND GARDEN PESTS MADE EASY!

As soon as plants leaf out in Spring, dust them regularly with EndoPest, Swift & Company's simplified, efficient pest control! It's the easy way to give your garden all the protection it needs from most garden pests!

A few strokes of the exclusive EndoPest dust gun produces a smoke-like cloud that envelopes a bed of flowers or row of vegetables with an almost-invisible film . . . a cloud that controls most chewing insects, sucking insects and fungus diseases! Add EndoPest to your order!

Spray weeds away quickly . . . safely . . . easily—with EndoWeed! An improved selective lawn weed killer, EndoWeed kills dandelions, chickweed, plantain and over 100 other weeds . . . without harming ordinary grass or affecting the soil.

Available in sizes from half pint to gallon, and in packets for small-area spraying, 8 ounces of EndoWeed treats 2000 sq. ft. of lawn. Add to your seed order or stop in for . . .



**EndoPest**

Made by Swift • Makers of VIGORO

**EndoWeed**

Presented by Swift • Makers of VIGORO



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*Southern* **LIVING and GARDENING**

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★ Authoritative articles on Southern house plans, interiors, gardening, landscaping. Lively departments: Garden Sorcery, Travelore, Southern Cookin', Shop-Sifter, Garden Calendar, Chore Cuts, Sundown. Enthusiastic readers quickly jumped SUN-UP circulation to four times that of any similar magazine in past 40 years.



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"All of my gardening friends as well as myself are enthusiastic about SUN-UP."—MRS. J. L. SIMPSON, Shreveport, La.

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"Congratulations on SUN-UP. I've been buying it at the newsstand. I liked the Mexico City Travelore this month. I like you, too—you're such friendly people."—EDITH WARREN HUGGINS, Raleigh, N. C.

**Ten Gift Subscriptions!**

"I have enjoyed SUN-UP so much that I'm enclosing ten gift subscriptions." — MRS. HENRY C. JOHNSTON, Lawton, Okla.

**"Fussing" Rewarded**

"Congratulations for a swell magazine—and I hasten to send my check so I will not miss the next issue. For many years I have 'fussed' for a garden magazine typical of our Southland. Now, I believe we have it. More power to you."—SUE BROWN REVELL, Grenada, Miss.

**Interesting Home Plans**

"I am very much interested in SUN-UP's home plans. Here's wishing you a lot of success for many more bright and cheery SUN-UP'S." — BENJAMIN R. MARTIN, JR., Woodbine, Ga.

**First Copy Snagged Husband**

"I have been trying for ten years to get my husband interested in gardening—one issue of SUN-UP did the trick! Why didn't you start publishing it years ago?"—MRS. L. M. SCHOENBERGER, Apopka, Fla.

**SEE REVERSE SIDE FOR HANDY ORDER BLANK**



# Home-Grown Vegetables Are Best

There is no question about it! There is a world of difference in flavor and nutritional value in home-grown vegetables when they are picked and prepared as close to the time they are to be served as possible. For instance, soon after sweet corn is picked the sugar content begins to turn to starch, thus losing its sweet flavor. Many other vegetables are similarly affected as to mineral content and vitamins. Taste alone will tell you there IS a difference.

A home garden is a money-saver, too, for when vegetables are handy you pick just what you need for the meal.

You don't have to buy two or three day's supply in order to save trips to the store or market. Your garden is your best refrigerator for growing vegetables are full-flavored and crisp.

And don't forget the healthful relaxation and pleasure you get from a few hours in the garden each week. It is lots of fun to watch the vegetables in your garden grow. You'll enjoy some flowers, too. They add beauty and give your garden a finished look. Start to plan it NOW!

## Suggestions for Ordering --- Order Early

A reading of the following will prove an aid to you and to us:

**OUR PRICES**—Including bags, boxes, and free cartage to the depot. Subject to stocks being unsold.

The prices quoted in this catalog include free delivery on packets, ounces, quarter pounds, pounds (except where otherwise stated). "By freight or express" means that transportation charges are paid by the customer. Subject to change without notice.

**SALES TAX**—When making up orders within the State of Oklahoma please add 2% sales tax.

**EARLY ORDERS**—Our rush season comes in the months of March and April. Orders sent at once secure prompt shipment from our full stock.

**HOW TO ORDER**—Write your name, postoffice, state, and express office plainly with black ink on every order and every time you write us. Give plain express, mail, or freight directions. Where none are given, we route at buyer's risk.

**NOTICE**—Inasmuch as several varieties of seeds are in short supply, all prices are made subject to stocks being unsold on receipt of your order.

**USE ORDER SHEETS**—The use of order sheets enclosed in this catalog is a great help to us in facilitating filling and shipment of orders. More will be sent on receipt of postal asking for same.

**ABOUT WARRANTING SEEDS**—It is impractical to guarantee seeds, as the best seeds will fail under improper treatment. Some may be sown in too dry ground or too wet, too deep, or too shallow. Some hardy seeds will stand cold weather and will grow where the soil is too cold for others and would cause them to decay. Insects may attack and destroy them. For these reasons we do not give warranty in any respect, and will not be responsible for the crop.

### GENUINE BUCKWHEAT FLOUR

FROM PENNSYLVANIA—We carry this in stock during November and December. 5-lb. and 10-lb. bags.

### WE GIVE "S. & H." GREEN TRADING STAMPS

## Use This Guide in Planning Your Garden

### NUMBER OF PLANTS REQUIRED TO THE ACRE

| Distance Apart          | No. of Plants |
|-------------------------|---------------|
| 1 foot by 1 foot.....   | 43,560        |
| 1½ feet by 1½ feet..... | 19,360        |
| 2 feet by 1 foot.....   | 21,780        |
| 2 feet by 2 feet.....   | 10,890        |
| 2½ feet by 2½ feet..... | 6,969         |
| 3 feet by 2 feet.....   | 7,600         |
| 3 feet by 3 feet.....   | 4,840         |
| 4 feet by 4 feet.....   | 2,722         |
| 5 feet by 4 feet.....   | 2,178         |
| 5 feet by 5 feet.....   | 1,742         |
| 6 feet by 6 feet.....   | 1,210         |
| 8 feet by 8 feet.....   | 680           |

### AVERAGE TIME REQUIRED FOR GARDEN SEED TO GERMINATE

|                   |               |
|-------------------|---------------|
| Beans .....       | 5 to 10 days  |
| Beets .....       | 7 to 10 days  |
| Cabbage .....     | 5 to 10 days  |
| Carrot .....      | 12 to 18 days |
| Cauliflower ..... | 5 to 10 days  |
| Corn .....        | 5 to 8 days   |
| Cucumber .....    | 6 to 10 days  |
| Endive .....      | 5 to 10 days  |
| Lettuce .....     | 6 to 8 days   |
| Onion .....       | 7 to 10 days  |
| Peas .....        | 6 to 10 days  |
| Parsnip .....     | 10 to 20 days |
| Parsley .....     | 15 to 21 days |
| Pepper .....      | 9 to 14 days  |
| Radish .....      | 3 to 6 days   |
| Spinach .....     | 7 to 12 days  |
| Salsify .....     | 7 to 12 days  |
| Tomato .....      | 6 to 12 days  |
| Turnip .....      | 4 to 8 days   |

### NUMBER OF PLANTS PRODUCED FROM AN OUNCE OF SEED

|                   |             |
|-------------------|-------------|
| Asparagus .....   | About 300   |
| Cabbage .....     | About 2,000 |
| Cauliflower ..... | About 2,000 |
| Celery .....      | About 3,000 |
| Egg Plant .....   | About 1,000 |
| Endive .....      | About 3,000 |
| Kale .....        | About 2,000 |
| Lettuce .....     | About 3,000 |
| Pepper .....      | About 2,000 |
| Tomato .....      | About 3,000 |

### TIME REQUIRED FOR MATURITY OF DIFFERENT GARDEN CROPS RECKONED FROM DAY OF PLANTING THE SEED

|                        |                 |
|------------------------|-----------------|
| Beans—String .....     | 45 to 65 days   |
| Beans—Shell .....      | 65 to 75 days   |
| Beets—Table .....      | 65 days         |
| Beets—Stock .....      | 150 days        |
| Cabbage—Early .....    | 105 days        |
| Cabbage—Late .....     | 150 days        |
| Cauliflower .....      | 110 days        |
| Corn .....             | 70 to 120 days  |
| Egg Plant .....        | 150 to 160 days |
| Lettuce—Heading .....  | 65 days         |
| Melon—Water .....      | 120 to 140 days |
| Melon—Musk .....       | 120 to 140 days |
| Onion .....            | 135 to 150 days |
| Pepper .....           | 140 to 150 days |
| Radish .....           | 30 to 40 days   |
| Squash—Summer .....    | 60 to 65 days   |
| Squash—Winter .....    | 125 days        |
| Tomato .....           | 125 to 150 days |
| Turnip .....           | 60 to 70 days   |
| Spinach, Av. Time..... | 45 to 65 days   |

### QUANTITY OF SEED TO SOW A SINGLE ROW OF 100 YARDS

|                               |        |
|-------------------------------|--------|
| Asparagus .....               | 8 ozs. |
| Beans, Bush .....             | 6 lbs. |
| Beans, Lima .....             | 3 lbs. |
| Beans, Pole .....             | 3 lbs. |
| Beet .....                    | 3 lbs. |
| Broccoli .....                | 3 ozs. |
| Brussels Sprouts .....        | 3 ozs. |
| Cabbage .....                 | 2 ozs. |
| Carrots .....                 | 3 ozs. |
| Cauliflower .....             | 3 ozs. |
| Celery .....                  | 3 ozs. |
| Corn .....                    | 1 lb.  |
| Cress .....                   | 4 ozs. |
| Cucumber .....                | 4 ozs. |
| Dandelion .....               | 3 ozs. |
| Egg Plant .....               | 1 oz.  |
| Endive .....                  | 2 ozs. |
| Leek .....                    | 3 ozs. |
| Lettuce .....                 | 2 ozs. |
| Melon, Musk .....             | 2 ozs. |
| Melon, Water .....            | 2 ozs. |
| Mustard .....                 | 4 ozs. |
| Okra .....                    | 3 ozs. |
| Onion (for large bulbs) ..... | 2 ozs. |
| Parsley .....                 | 2 ozs. |
| Parsnips .....                | 2 ozs. |
| Peas .....                    | 6 lbs. |
| Pepper .....                  | 1 oz.  |
| Pumpkin .....                 | 2 ozs. |
| Radish .....                  | 6 ozs. |
| Rhubarb .....                 | 3 ozs. |
| Salsify .....                 | 3 ozs. |
| Spinach .....                 | 6 ozs. |
| Tomato .....                  | 1 oz.  |
| Turnip .....                  | 3 ozs. |
| Kohl Rabi .....               | 3 ozs. |



# Perfection Brand *Tested* GARDEN SEED

Every lot of Perfection Brand Seed is thoroughly tested for active, abundant, and vigorous life, so that only the most vital product is shipped. The exacting nature of these tests have won the confidence of thousands of Southwestern gardeners who plant Perfection Brand Seeds; and gladly recommend them to their neighbors and friends.

## ASPARAGUS

Plant early spring, cover 1 inch. Takes three years to produce a crop from seed. Two years may be saved by planting roots. Set roots two feet apart in the rows.

MARY WASHINGTON.

Pkt., 10c; oz., 15c; ¼ lb., 40c.

## GARDEN BEANS

Given moisture, this crop can be planted in the South in succession until the middle of August. A good, sandy loam is the best soil of average richness.

The bush varieties should be planted 1½ inches deep in drills, 18 inches or 2 feet apart, 2 inches apart in the drill. The pole variety should be planted two or three beans in a hill, two feet apart each way. Give them clean cultivation, mellowing the soil between them, but not going too deep. Do not hoe them when wet from dew or rain, as this induces rust of leaves or pods.

A pound will plant 100 feet of drill; 2 bushels, or 120 lbs. to the acre in drills. For a larger yield of beans, use Nitragin. See page 24.

### GREEN POD BUSH

#### BURPEE'S STRINGLESS GREEN POD—

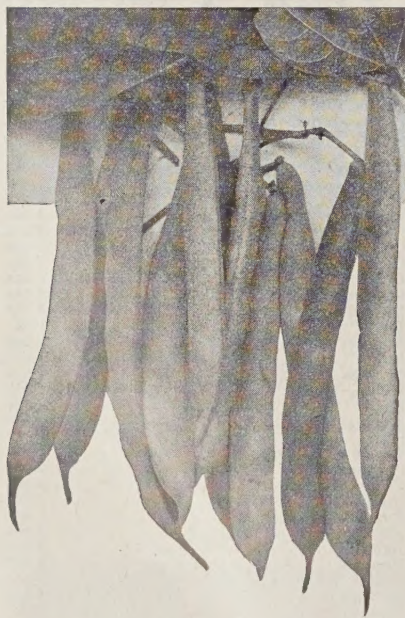
Splendid for market and home garden. It is stringless in reality as well as name. It is an abundant cropper and the pods are thick, round, fleshy and nearly straight. Ready for picking in 45 days.

#### TENDERGREEN STRINGLESS GREEN POD—

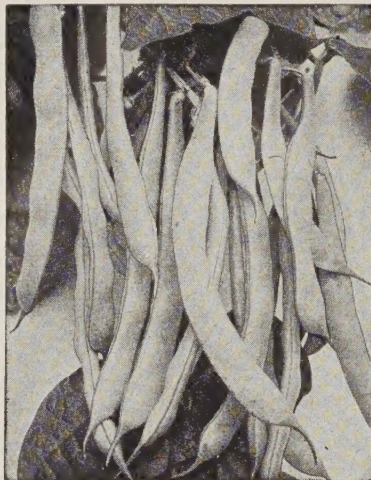
Exceptionally tender, entirely stringless, meaty pods that snap like icicles. The pods are 6 inches long, perfectly round. Makes in 54 days.

#### TENNESSEE STRINGLESS GREEN POD—

Flat pods 7 inches long. Early.



BURPEE'S STRINGLESS GREEN POD



PENCIL POD WAX

#### GIANT STRINGLESS GREEN POD—

This is a great improvement on the old-time popular favorite Valentine Bean. The pods are fully one-third longer, averaging 5 and 6 inches in length; absolutely stringless, very crisp, round, full and fleshy. It is enormously productive, its handsome pods being ready for market a few days earlier than the old Valentine.

#### TENNESSEE GREEN POD—

This dwarf, early, intermediate snap bean is very popular in some sections of the South. The vines are large, somewhat spreading, and prolific. The pods are very long—very often 6 to 7 inches, flat, irregular in shape, bright but rather dark green, and of excellent quality.

LOGAN—A U. S. Department of Agriculture development. Excellent for market and canning.

#### BOUNTIFUL STRINGLESS GREEN POD

—An early variety. Flat pods 6 inches long, light green.

#### STRINGLESS RED VALENTINE—

Popular for home gardens because of its hardness and earliness.

## WAX POD BUSH

**PENCIL POD BLACK WAX**—Rich yellow pods from 5 to 6 inches long; entirely stringless, very meaty and tender.

**IMPROVED GOLDEN WAX**—Very valuable rust-proof strain of the Golden Wax which stands drouth remarkably well.

**KENTUCKY WONDER WAX**—This remarkable vigorous-growing wax-podded pole bean is very similar to the green-podded Kentucky Wonder, but the very long pods are a little broader, very fleshy, and quite stringless as snaps.

### Selected Northern Grown POLE OR RUNNING BEANS

A word about Pole Beans. Many growers hesitate to plant pole beans because of the scarcity of poles. This objection is easily overcome and the greater profit in growing the pole varieties should be sufficient reason for going to a little extra care. Plaster laths will answer the purpose and cost very little.

#### KENTUCKY WONDER GREEN POD—

Brittle, stringless, meaty, delicious flavor. The plants are vigorous climbers; pods are borne profusely in clusters; they average from 7 to 9 inches long; are of attractive green color; round and very brittle when young.

#### WHITE SEEDED KENTUCKY WONDER

—A high yielding type of Kentucky Wonder, resistant to certain forms of rust. Pods are 8 inches in length, round, stringless, fleshy, light green. Seed slightly larger than brown seeded Kentucky Wonder.

#### WHITE CREASEBACK—

Large, long pods, growing in clusters of from 6 to 12, of a silvery green, of the best quality of snaps. A good corn-hill bean.

#### CUT SHORT or CORNFIELD—

Green beans; resembling those of the Bush Valentine dry beans, red speckled.

#### MISSOURI WONDER—

A late variety with 5-inch flat, curved pod, color medium green. Meaty, stringy, good quality. Long bearing corn-hill beans.

### BEAN PRICES

| Bush—Green, Wax and Lima              | Pkt.   | Postpaid Lb. | 5 lbs. |
|---------------------------------------|--------|--------------|--------|
| Burpee's Stringless Green Pod.....    | \$ .10 | \$ .50       | \$2.25 |
| Landreth's Stringless Green Pod.....  | .10    | .50          | 2.25   |
| Giant Stringless Green Pod.....       | .10    | .40          | 1.75   |
| Tendergreen Stringless Green Pod..... | .10    | .50          | 2.25   |
| Tennessee Stringless Green Pod.....   | .10    | .50          | 2.25   |
| Logan Stringless Green Pod.....       | .10    | .50          | 2.25   |
| Bountiful Stringless Green Pod.....   | .10    | .50          | 2.25   |
| Stringless Red Valentine.....         | .10    | .50          | 2.25   |
| Improved Golden Wax.....              | .10    | .55          | 2.50   |
| Pencil Pod Black Wax.....             | .10    | .55          | 2.50   |
| Early Market Bush Lima.....           | .10    | .50          | 2.25   |
| Henderson's Bush Lima.....            | .10    | .50          | 2.25   |
| Burpee's Bush Lima.....               | .10    | .55          | 2.50   |
| Jackson Wonder Bush Lima.....         | .10    | .50          | 2.25   |



# The Right Start for Your 1948 Garden

## DWARF LIMA BEANS

Plant when ground is dry and weather is warm in rows 2 feet apart, dropping the beans 6 inches apart in the row, eye down, covering with 1 inch of soil. One pound will plant 100 hills.

### EARLY MARKET BUSH (U. S. 142) —

Bronze Medal 1944 All-America Awards. This variety is best compared to Burpee's Bush Lima, in plant structure, type, etc., bearing curved pods of about the same size, but producing slightly smaller seed. It is a flat seeded type.

The outstanding feature of the EARLY MARKET BUSH, however, is its very early maturity and its ability to yield under hot weather conditions. Matures approximately the same time as Henderson's Bush and makes heavy yields where no other large type lima would set pods.

**HENDERSON'S BUSH LIMA**—This is the earliest variety, being fully two weeks ahead of any other sort in maturity. The beans are small and very fine for canning.

**BURPEE'S BUSH LIMA**—The stout, erect bushes grow from 18 to 20 inches high and 2 to 3 feet in diameter. They are laden with large, luscious beans.

**JACKSON WONDER BUSH LIMAS**—It is of true bush form, about 2 feet high, bearing greatest profusion of broad, flat pods, each having from 3 to 5 medium-sized flat, handsomely speckled beans, which cook quickly and are of superior flavor.

## POLE LIMA BEANS

**CAROLINA or SIEVA POLE**—(Small White Beans)—Vigorous variety; very early and productive. Pods are short, flat and curved; beans white, small and kidney-shaped.

**GIANT SPECKLED POLE**—Vine grows 7 to 9 feet tall; pods 5 to 5½ inches, 3 beans per pod, slightly curved, large-flat. Produces large seed of beautifully contrasted colors. Very prolific.

**SPECKLED POLE LIMA**—The most prolific of the Pole Limas. Seeds are about the size of the Sieva, but are speckled white and brownish red.

**KING OF THE GARDEN**—(Large White Lima)—An improved strain of the large white, of more prolific character and with larger pods and beans.

## SHELL BEANS

**IMPROVED NAVY**—Small seed. White and round. Pods 4 to 5 inches.

**RED KIDNEY**—Pods flat and broad. Color pinkish crimson. Pods 5 to 6 inches.

## BEETS

Beets are one of the most healthful of vegetables, containing more elements which the human system needs than almost any other.

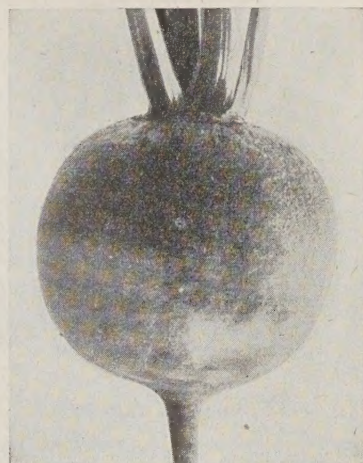
Beets grow in moderately light, sandy soil. For very early crops, sow in hot-beds and transplant the seedlings as soon as the weather is warm enough into open ground; for regular crop, plant outside as soon as the ground is in good condition; plant in drills 12 to 15 inches apart and cover about 1 inch deep. When the seedlings are 4 to 5 inches high, thin them out to stand 4 to 5 inches apart in the row. An ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre. A complete plant food will increase quality and yield.

**DETROIT DARK RED**—A very popular sort used extensively by market gardeners as well as private planters. It matures early, and the roots are of splendid shape and good color. The tops are small and upright-growing, which makes possible close planting. The roots are globular and smooth, the skin is dark, blood red, the flesh red with lighter zones. The beets are very tender, firm and crisp, and remain so for a long time.

**EARLY BLOOD TURNIP**—Coming in at the same time as the small, flat Egyptian, it is much larger and almost globe-shaped—a much better beet for every purpose. It is fine-grained, very tender, and of good, sweet flavor. The color of the flesh is a rich red, tinged with crimson.

**EARLY WONDER**—A very early dark red beet similar to Crosby's Egyptian. Its earliness and deep color make it a favorite with the market gardeners. The taproots are small and the roots are of a desirable shape for bunching.

**CROSBY'S EGYPTIAN**—The market gardener's favorite. Fine, globe-shaped roots.



EARLY WONDER

## SWISS CHARD

OR SPINACH BEET.

Swiss Chard is the best "greens" follow-up for spinach, and will stand the hot weather without losing its crispness.

This delicious and useful vegetable should be in every garden and on every market stall. It is really two distinct vegetables. First the leafy part of the foliage is cooked and served the same as spinach, while the stalks are cooked and served with drawn butter, like tender asparagus. It grows about 2½ feet high. The stalks are thick and broad like rhubarb; the leaves are large and heavily crumpled like Savoy Spinach. Crisp and tender, pleasing flavor.

## BRUSSELS SPROUTS

Brussels Sprouts are a very delicate vegetable, and deserve a more general cultivation than they receive. The plant belongs to the cabbage family and should be grown and cultivated like miniature cabbages. Very hardy; improved by frost. An ounce will produce 2,000 plants.

**DWARF IMPROVED**—Bearing a small crop of small, solid, and tender heads.

Pkt. 10c; oz. 60c, postpaid.

### BEAN PRICES

|                              | Pkt. | Lb. | 5 Lb. |
|------------------------------|------|-----|-------|
| Pole—Green, Wax and Lima     |      |     |       |
| Kentucky Wonder              | .10  | .50 | 2.25  |
| White Seeded Kentucky Wonder | .10  | .50 | 2.25  |
| White Creaseback             | .10  | .50 | 2.25  |
| Cut Short or Corn Field      | .10  | .50 | 2.25  |
| Missouri Wonder              | .10  | .50 | 2.25  |
| Carolina or Seiva Pole Lima  | .10  | .50 | 2.25  |
| King of the Garden Lima      | .10  | .55 | 2.50  |
| Florida Butterbean           | .10  | .50 | 2.25  |
| Giant Speckled Pole Lima     | .10  | .55 | 2.50  |
| Shell Beans                  |      |     |       |
| Improved Navy                | .10  | .35 |       |
| Red Kidney                   | .10  | .35 |       |

### BEET PRICES

|                    | Pkt.   | Oz.    | ¼ Lb.  | Lb.    |
|--------------------|--------|--------|--------|--------|
| Early Wonder       | \$ .10 | \$ .20 | \$ .65 | \$1.25 |
| Early Blood Turnip | .10    | .20    | .65    | 1.25   |
| Crosby's Egyptian  | .10    | .20    | .65    | 1.25   |
| Detroit Dark Red   | .10    | .20    | .65    | 1.25   |

### SWISS CHARD PRICES

|          | Pkt.   | Oz.    | ¼ Lb.  | Lb.    |
|----------|--------|--------|--------|--------|
| Lucullus | \$ .10 | \$ .25 | \$ .65 | \$1.50 |



# CABBAGE *Is Delicious Cooked or Raw*



**COPENHAGEN MARKET**

Soil for cabbage should be a rich, heavy loam, with good drainage. Such a soil when supplied with complete fertilizers will produce excellent crops.

**TRUE EARLY JERSEY WAKEFIELD**—Small cone-shaped head; matures in from 90 to 100 days after planting.

**CHARLESTON WAKEFIELD**—Selection from Early Jersey Wakefield, only it is about one week later than that popular variety, and grows larger heads. Very solid and of fine quality.

**COPENHAGEN MARKET**—The earliest large round-headed cabbage. Very popular with market gardeners. An extra early summer cabbage, matures fully as early as the Early Jersey Wakefield, but produces larger heads, often averaging 10 pounds or more. The heads are ball-shaped, mild and firm, with small core, and of splendid quality. Leaves are of light green color, tightly folded together, forming a very compact head.

**GOLDEN ACRE**—Very early, of the Copenhagen type, flat head, but about eight days earlier than the Copenhagen. This extra earliness assures higher prices for the market gardener—and more tender, more crisp, and better flavored cabbage for the table.

**PREMIUM LATE FLAT DUTCH**—Of good flavor and very tender; among the earliest of the winter cabbages.

**MAMMOTH RED ROCK**—The best red cabbage for pickling or table use.

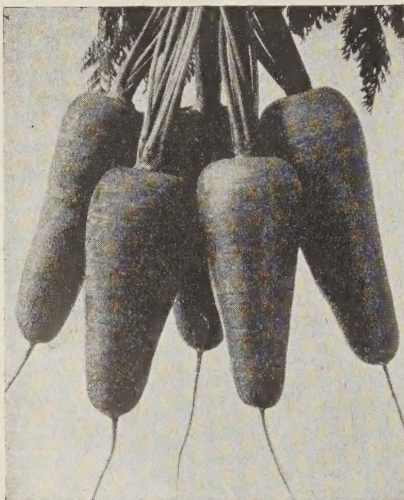
## CHINESE or "CELERY" CABBAGE

Produces beautiful, crisp, celery-like heads that blanch easily and resemble a giant Cos lettuce. Sow seed in any good soil the first of August, making rows 24 to 36 inches apart and thinning to 15 inches apart in the row.



# Crisp, Tender CARROTS

An Excellent Source of Vitamin A



**DANVERS HALF LONG**

**EARLY CHANTENAY**—A fine bunching carrot. One of the best early sorts, maturing between the Oxheart and Danvers. The carrots grow about 6 inches in length, stump-rooted, very smooth, deep red, fine-grained, sweet and sugary. Market gardeners should grow these for their main early crop.

**IMPERATOR**—74 days. A recent introduction for market garden use and long distance shipping. Tops medium length, strong. Roots 7 to 9 inches, sloping shoulders tapering to semi-blunt tip. Exterior smooth, color rich orange. Interior deep orange which extends to core. Good quality.

## CAULIFLOWER

It requires a cool, moist season for its best growth, a constant supply of soil-moisture, and rich, loamy land, well fertilized. Cultivation is the same as cabbage. One ounce will produce from 800 to 1,000 plants.

**EARLY SNOWBALL**—Under favorable conditions every plant produces a magnificent white head of fine quality.

Pkt., 25c.

## CELERY

Seed should be sown in February in hot-beds or in flat boxes filled with clean, mellow loam, with about one-eighth inch of fine soil or sand, pressing it down firmly. Keep the soil moist constantly. When plants are fairly out of the seed leaf, transplant into another box or bed, or thin out to 2 or 3 inches apart. Plant into the open ground by the last of May or the beginning of June. One ounce will sow 300 feet of drill.

**GOLDEN SELF-BLANCHING**—The plants are compact, semi-dwarf habit and form numerous stalks. They are heavily ribbed, of golden color, very crisp and tender.

Pkt., 10c.

## CARROTS

Carrots grow best in rich deep sandy loam, well pulverized and deeply cultivated. Sow in March or April, in drills 15 to 18 inches apart and about one-half inch deep, thinning out the seedlings to 4 inches in the row. One ounce will sow 100 feet of row; 3 or 4 pounds to the acre.

**DANVERS HALF LONG**—An excellent market variety of medium size. The roots are of a rich orange-red color, smooth, and very handsome. Produces a very large crop.

### CABBAGE PRICES

|                              | Pkt.   | Oz.    | 1/4 lb. |
|------------------------------|--------|--------|---------|
| Early Jersey Wakefield ..... | \$ .10 | \$ .30 | \$ .75  |
| Charleston Wakefield .....   | .10    | .30    | .75     |
| Copenhagen Market .....      | .10    | .30    | .75     |
| Golden Acre .....            | .10    | .30    | .75     |
| Late Flat Dutch .....        | .10    | .30    | .75     |
| Early Flat Dutch .....       | .10    | .30    | .75     |
| Mammoth Red Rock .....       | .10    | .30    | .75     |

### CARROT PRICES

|                         | \$ .10 | \$ .20 | \$ .50 |
|-------------------------|--------|--------|--------|
| Danvers Half Long ..... | \$ .10 | \$ .20 | \$ .50 |
| Chantenay .....         | .10    | .20    | .50    |
| Imperator .....         | .10    | .20    | .50    |



# SWEET CORN *Picked Fresh Is Mighty Good*



**GOLDEN CROSS BANTAM**

Corn, like anything else well worth having, takes a little care to produce. A few rows of corn will supply the average home with plenty of fine roasting ears and enough over for canning and drying to last through the winter. Be sure and plant sweet corn every ten days or two weeks and you will have a continuous supply of table corn in the right stage to enjoy the eating of it. A rich, warm soil is the best, but excellent sweet corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. One pound of seed will plant about 100 hills.

Our sweet corn is grown in Ohio by the most reliable grower and breeder of high grade sweet corn in the United States.

## **GOLDEN CROSS BANTAM HYBRID—**

Ears 8 to 9 inches long, 10 to 14 rows of light golden kernels. 84 days. Has the quality of Golden Bantam but is larger in both plants and ears. It is resistant to bacterial blight and highly productive.

## **IOANA HYBRID—**

Ears 8½ to 9 inches; 12 to 14 rows. Light yellow kernel. Stalk 6 to 6½ feet. A new large, late yellow hybrid. Matures 3 to 4 days later than Golden Cross and outyields this well known variety. Its vigor and lack of suckering has made it more resistant to drouth and adverse weather conditions.

## **EARLIGOLD (Hybrid Sweet Corn)—**

To become popular, a hybrid sweet corn must be early, have good sized ears of good quality, and be able to thrive in a variety of climates, which often proves the downfall of new hybrids. In Earligold we have just such a hybrid that seems to do well in almost any section of the country. Yield is also important, and Earligold yields better and has better ears than other hybrids we have seen in its same maturity group. The ears are 6½ to 7 inches long, slightly tapering and very uniform, well filled with 12 to 16 rows of kernels. Plants are sturdy, 5 to 5½ feet tall, with few suckers. Somewhat resistant to wilt. Matures in 67 to 72 days.

**GOLDEN BANTAM**—The stalks are of medium size, with heavy foliage, for forage. The ears are borne two to a stalk about 6 inches in length and are eight-rowed. The kernels are of golden yellow color, which at first gives the impression of field corn. However, as soon as tasted there is immediately a call for more.

**COUNTRY GENTLEMAN**—The most delicious of the late sorts. The medium-sized ears are covered with irregularly arranged, deep, sweet kernels. Very prolific, and well liked in some localities, where it is sold on the market as the "Shoe Peg."

**STOWELL'S EVERGREEN**—The ears are large; have fifteen or more rows of deep, luscious kernels, and remain tender and fit for use longer than any other sort.

**TRUCKER'S FAVORITE**—For a second early corn to follow Adams Early, or for late planting to mature early, this is a good sort. In addition to being a fine corn, it makes an excellent field corn to plant late.

**EXTRA EARLY ADAMS**—White, 65 days. Ears short, well filled with plump, tender kernels. Satisfies that early desire for roasting ears.

**EARLY LARGE ADAMS**—White, 70 days. Second early. Fairly large ears, well covered with shuck, full size grains. Fine for home and markets.

## **KALE OF BORECOLE**

Loose, curly leaved type of the cabbage family; particularly noted for its hardiness. It makes excellent tender greens for winter use. In the South the hardy variety remains in the open ground all winter. Cultivated the same as cabbage. One ounce of seed is sufficient for 200 feet of drill.

**DWARF CURLED SIBERIAN**—The plant is dwarf, spreading, and very hardy, standing the winter without protection. The leaves are green, slightly tinted with purple, and of superior quality.

Pkt., 5c; oz., 15c; ¼ lb., 50c, postpaid.

## **COLLARDS**

**GEORGIA**—An old stand-by in the South. For winter greens it has no equal; not in the best condition until touched by frost. Sow in July or August, transplant in rows, setting them 2 feet apart.

Pkt., 5c; oz., 10c; ¼ lb., 30c, postpaid.

## **ENDIVE**

### **For Greens and Salads**

For late spring and summer use, sow the seed in open ground during February or March. For fall use sow in July or August. Requires about 60 days to make a crop. This is a fine salad crop for your garden, and the leaves are used for garnishing and flavoring soup. Use a packet to 25 feet of drill.

**DEEP HEART FRINGED**—The well filled hearts are closely packed with an abundance of fine leaves blanched to clear creamy yellow. Well-grown plants have a diameter of 10 to 12 inches and a depth of 7 to 8 inches. Pkt., 10c.

## **DILL**

Every year there is such a demand for green dill that the supply is short of the demand. Plant in any quantity, from ten feet square to fifty feet square, but no more. Make several plantings to have it for market almost constantly and sell what you can of the green dill and dry the balance. First planting may be made about May 1st. Packet will plant three feet square; an ounce will plant 10 to 15 feet.

Pkt., 10c; oz., 30c, postpaid.

## **KOHL RABI**

Grown for its thick, bulb-shaped stalks, which, while young, are prepared in the same manner as turnips, and which furnish a most desirable vegetable. Sow the seed in the spring in drills half an inch deep and two feet apart and when plants are a few inches high thin to 15 inches. Cultivate the same as for beets. One packet will sow about 30 feet in drill.

### **EARLY PURPLE VIENNA.**

### **EARLY WHITE VIENNA.**

Pkt., 10c; oz., 50c, postpaid.



### **TREAT ALL SEED CORN WITH SEMESAN JR.**

It insures better germination, controls seedling blight and reduces root rot and permits earlier planting.

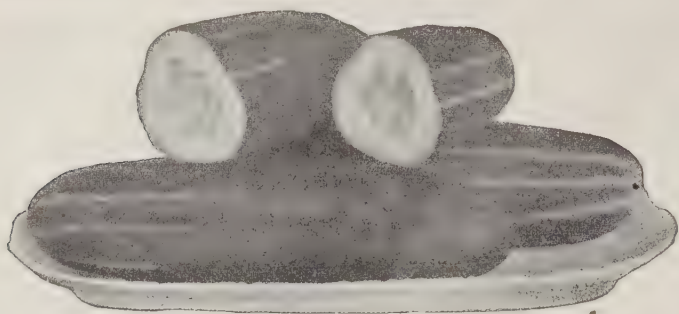
1½ oz. pkg. treats 1 bushel seed corn, 20c; 12 oz. pkg., 65c.

### **CORN PRICES**

|                                 | Postpaid |        |        |
|---------------------------------|----------|--------|--------|
|                                 | Pkt.     | ¼ lb.  | Lb.    |
| Golden Cross Bantam Hybrid..... | \$ .10   | \$ .15 | \$ .55 |
| Ioana Hybrid .....              | .10      | .15    | .55    |
| Earligold Hybrid .....          | .10      | .15    | .55    |
| Stowell's Evergreen .....       | .10      | .15    | .50    |
| Country Gentleman .....         | .10      | .15    | .50    |
| Golden Bantam Imp.....          | .10      | .15    | .50    |
| Truckers' Favorite .....        | .10      | .10    | .30    |
| Early Large Adams.....          | .10      | .10    | .30    |
| Extra Early Adams .....         | .10      | .10    | .30    |



# CUCUMBERS *for Pickles and Salads*



STRAIGHT EIGHT

Plant as soon as the weather has become settled and warm, in hills 4 feet each way. Cucumbers succeed best in warm, moist, rich, loamy soil. Plant the seeds about half inch deep. When all danger of insect attack is over, thin to about three or four of the strongest plants to the hill. Do not allow any fruit to ripen on the vines, as this will cause them to stop bearing.

**A & C**—68 days. One of the best known varieties for market and home gardens. Fruits nearly cylindrical, tapering slightly at both ends. Uniform in size and dark green in color. 8½ inches long and 2¼ inches in diameter. Holds color well; one of the leading white spines for slicing.

**IMPROVED LONG GREEN**—Most widely cultivated sort; unsurpassed for general use. The cucumbers average 10 inches long when fully developed, and are fine for slicing. The smaller fruits make excellent pickles.

**EARLY FORTUNE**—One of the best cucumbers on the market. Fruit is slightly tapering and about nine inches long. The firm, crisp, thick flesh is very white and has very few seeds. Early Fortune has a rich, dark green color which does not fade when shipped to distant markets. The vines are vigorous, very productive and blight resisting.

**LONGFELLOW**—Particularly valuable for shipping. Fruits handsome; extremely dark green over entire surface; retains color remarkably long after picking; white spine; 12 to 14 inches long, 2½ to 2¾ inches thick. Straight, well filled at ends. Very few seeds. Matures in 74 days.

**STRAIGHT EIGHT**—Fruits are very symmetrical, almost cylindrical, with well rounded ends. Ready for market in 58 days, it carries an intense dark green color which it holds for some time. A fine market sort 8 inches long, 2 inches in diameter.

**CLIMBING**—The strong vines, throwing out numerous tendrils, can be trained upon a trellis or poles, which will insure earlier ripening and a straight, handsome form in the large fruits.

**EARLY CLUSTER**—Extra prolific sort; setting its fruits in clusters of two or three. The fruit is dark green, short and particularly suitable for pickles.

**WEST INDIA GHERKIN**—A very prolific, small fruited variety, used exclusively for pickling. It is not properly a cucumber, and is of no value for slicing. The fruits are 2 to 3 inches in length, thick and rounded, closely covered with spines.

# LETTUCE *the No. 1 Salad Vegetable*

Lettuce is a cool-season crop that must grow fast in order to be crisp and fresh when ready for the table. Sow seed as early as possible in rich soil, for there is no better crop than the first in the spring. Vigoro, the complete plant food, improves yield and flavor.

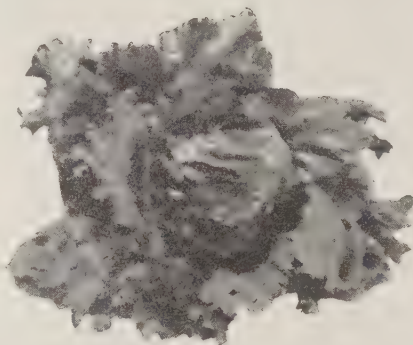
**BIG BOSTON**—Very distinct variety, grown largely in the South as a winter lettuce. Light green color and quite tender when well grown. Outside is a less distinctive heading sort, the plants bearing vigorously, growing to a good size and forming loose heads.

**IMPROVED HANSON**—One of the best for growing during the hot summer months, as it will stand heat and dry weather to perfection. Light green color outside and white within; tender, crisp.

**NEW YORK**—A favorite variety. Heads very large, heavy and compact. Has a vigorous root system, which enables it to stand hot weather better than other varieties. The interior is beautifully blanched, creamy white, crisp and tender, and free from any bitterness.

**GREAT LAKES**—This variety won top place in the 1943 All-American trials. This crisp head or Iceberg type is very attractive. It stands sun and heat, remarkably slow to throw a seed head, and is very resistant to tip-burn.

**OAKLEAF**—This novel variety excels in ability to withstand hot weather without turning bitter. Its leaves are small, tender and deep green, and in shape resembles an oak leaf.



GREAT LAKES

**EARLY CURLED SIMPSON**—Forms close, compact bunches of effectively curled leaves.

**BLACK SEEDED SIMPSON**—Makes large bunches of curly, crisp leaves.

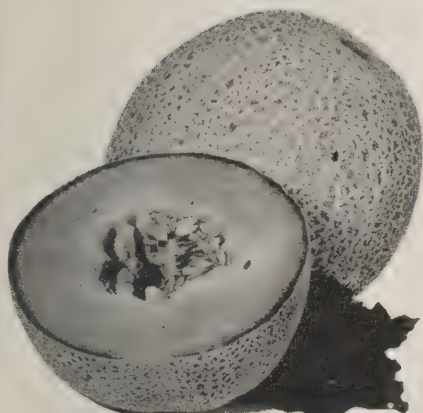
**GRAND RAPIDS**—The well-known forcing variety for the Middle West, where the butterheads or cabbage varieties do not grow very well under glass. It is a loose-branching variety, forming no definite head; is extremely curly, and its light green color is very attractive.

**PRIZE HEAD**—The outer leaves are bright and green, shaded with brownish red. They are large and thin, attractively curled, and very tender.

|                      |       | Postpaid |        |        |
|----------------------|-------|----------|--------|--------|
| CUCUMBER PRICES      |       | Pkt.     | Oz.    | ¼ lb.  |
| Improved Long Green  | ..... | \$ .10   | \$ .25 | \$ .60 |
| A & C                | ..... | .10      | .25    | .60    |
| Early Fortune        | ..... | .10      | .25    | .60    |
| Longfellow           | ..... | .10      | .25    | .60    |
| Straight Eight       | ..... | .10      | .25    | .60    |
| Early Cluster        | ..... | .10      | .25    | .55    |
| Climbing             | ..... | .10      | .25    | .55    |
| West India Gherkin   | ..... | .10      | .25    | .55    |
| LETTUCE PRICES       |       |          |        |        |
| Early Curled Simpson | ..... | \$ .10   | \$ .25 | \$ .60 |
| Black Seeded Simpson | ..... | .10      | .25    | .60    |
| Grand Rapids         | ..... | .10      | .25    | .60    |
| Big Boston           | ..... | .10      | .25    | .75    |
| Improved Hanson Head | ..... | .10      | .25    | .75    |
| Great Lakes          | ..... | .10      | .50    | 1.50   |
| New York Head        | ..... | .10      | .30    | .75    |
| Prize Head           | ..... | .10      | .25    | .60    |
| Oakleaf              | ..... | .10      | .35    | .90    |



# You Will Enjoy Eating Luscious Cantaloupes



HALE'S BEST NO. 36

A warm, sandy loam is best for raising melons. Plant early in the spring, 8 seeds in each hill. After they are well started thin to about 3 plants to each hill. An ounce will plant 60 hills; 2 or 3 pounds to the acre. We strive to supply melon seed of the highest quality. We have them grown where they reach the highest point of perfection by the most reliable growers, and are in a position to offer strains far superior to the commonly sold commercial grades. Many testimonials from thoroughly pleased customers show that our efforts to supply only the best are appreciated.

**ROCKY FORD**—This is the melon that made Rocky Ford famous. The flesh is green, very deep, solid and sweet, and can be eaten close to the rind. The seed cavity is very small.

**HALE'S BEST No. 36**—Is the standard of its class. Ready for the market in 85 days. Solidly netted, no ribs. The rich, spicy salmon flesh is deep, fine grained and will hold up well for long distance shipping.

**OSAGE, or MILLER'S CREAM**—One of the finest and most popular salmon-fleshed muskmelons. The fruits are large, usually nearly three times the size of the Rocky Ford, with skin moderately netted and of oblong shape.

**HEARTS OF GOLD**—This melon runs very uniform in size and is a splendid shipping variety. The melons are oval to oblong in shape and are a little larger than the Rocky Ford. While it is a ribbed melon the ribs are not prominent and the melons

are very heavily netted. The flesh is rich orange color, fine grain and of excellent flavor. Seed cavity is small. It doesn't turn yellow when ripe, but retains its natural color and remains solid and firm for days after it is picked from the vine.

**HONEY DEW MELON**—The fruits are of medium size, round or slightly oval, 5 to 6 inches in diameter and weigh about 6 pounds each. Flesh light emerald green, fine grained and of very sweet, sugary flavor. Rind thin but very firm and the fruit stands shipping remarkably well. If picked shortly before mature the fruits will keep for several weeks. Matures about two weeks later than Rocky Ford.

**IMPROVED BANANA**—Produces fruit of the finest quality, 1½ to 2½ feet long; rind thin and comparatively tough; flesh of a beautiful reddish salmon color, of excellent flavor; withstands the heat to perfection; fine for family use.

## WATERMELONS---Sweet and Juicy

Our watermelon seed is grown especially for us in the South and selected from the very best melons. Southern-grown watermelon seed is always the best and the quality of the melons the very highest, as has been proven. A trial order will convince you our seed is first-class in every respect.

**MOUNTAIN HOOSIER**—Is a large, round melon, in color a very rich, dark green with a slightly bluish bloom. Flesh deep, bright red, seed white with black points and slight black markings. Quality is excellent. Weight up to 60 lbs. Vines are hardy and prolific, the melons very attractive in appearance and the red meat is sweet, free from stringiness, of good texture and usually cut solid. Shy seeder.

**DIXIE QUEEN**—A new round melon of striking appearance. Light and green striped, very showy. Thin, tough rind; flesh bright scarlet, solid, of fine texture. Quality unsurpassed. Seed very small, white. Vines vigorous, prolific. Melons uniform in size and appearance, 30 to 40 lbs. Destined to become a leader for home gardens, local markets and shipping. Has fewer seed than other varieties.

**IMPROVED KLECKLEY'S SWEET**—One of the earliest, best and sweetest flavored melons in cultivation. On account of its thin rind, it will not stand shipment to distant markets, but it is the best that can be grown for the home and nearby markets. The skin is dark green. The flesh is scarlet, firm, solid and of delightful flavor.

**STONE MOUNTAIN**—While this melon is rather new it is fast becoming a great favorite in many sections of the South, Middle West and Southwest. It grows large; rather round in shape and dark green in color. The flesh is a deep red, has but a few seeds and the flavor is all that could be desired.

**BLACK DIAMOND**—A desirable all-purpose melon which is used extensively for shipping in some sections. Vines vigorous and prolific. Fruits very large, dark green, nearly round. Flesh bright red, crisp and sweet.

**FLORIDA GIANT**—The flesh is rich red, seeds black, quality usually very good—under favorable weather and soil conditions excellent. Grows round and extra large. Sometimes 70 pounds or better.

**SMITH WATSON**—Grows in shape and size about the same as the regular Watson, but has distinct markings in the form of irregular stripes. A good shipper and eating quality, considered better than other types of Watson.

**TOM WATSON**—The most popular shipping melon grown. The melons are large, long and green, like Kleckley's Sweet, but with a tougher rind, giving it excellent shipping qualities. The flesh is a rich red, solid, sweet, and luscious, and ripens up close to the rind.

**PORTO RICAN**—A golden fleshed melon, very tender and has a most delicious flavor. It is medium early, of large, uniform size, oblong shape. This has no hard core or stringy sections.

### CANTALOUPE PRICES

|                          | Pkt. | Oz. | 1/4 lb. |
|--------------------------|------|-----|---------|
| Hale's Best No. 36       | .10  | .25 | .60     |
| Hearts of Gold           | .10  | .25 | .60     |
| Improved Banana          | .10  | .25 | .60     |
| Osage or Miller's Cream  | .10  | .25 | .60     |
| Rocky Ford, Green Flesh  | .10  | .25 | .60     |
| Rocky Ford, Orange Flesh | .10  | .25 | .60     |
| Honey Dew                | .10  | .25 | .60     |

### WATERMELON PRICES

|                     | Pkt. | Oz. | 1/4 lb. |
|---------------------|------|-----|---------|
| Mountain Hoosier    | .10  | .25 | .75     |
| Dixie Queen         | .10  | .25 | .75     |
| Imp. Kleckley Sweet | .10  | .20 | .65     |
| Black Diamond       | .10  | .25 | .75     |
| Florida Giant       | .10  | .20 | .75     |
| Smith Watson        | .10  | .20 | .65     |
| Tom Watson          | .10  | .20 | .65     |
| Stone Mountain      | .10  | .20 | .65     |
| Porto Rican         | .10  | .20 | .65     |



# MUSTARD---for Healthful Greens

Mustard is grown for greens and requires a loamy, rich soil, preferably a sandy loam. It is sown either broadcast or in drills; if it is sown broadcast about 8 quarts of seed are required per acre, if in drills, 3 pounds per acre.

**FLORIDA BROAD LEAF**—Plants are rather tall and upright growing, and produce considerable more leaf growth than other varieties. The leaves are large, broad, comparatively smooth and have broad, distinct midribs. This variety is quite distinct in that it stays in condition without bolting to seed considerably longer than most other sorts.

**MUSTARD SPINACH**—Sometimes known as Tender Greens. This new vegetable, which is all its name implies, is a very mild mustard with a creamy spinach flavor. Mustard Spinach grows fast. The leaves are ready for cutting three to four weeks after planting. Dry hot weather does not injure the crop.

**SOUTHERN GIANT CURLED MUSTARD**—Long Standing type. This is a decided improvement over the old curled mustard as it will stand ten to fourteen days later before bolting to seed.



SOUTHERN GIANT CURLED

## Favored for Flavor--Okra, ONIONS, Parsley

### OKRA or GUMBO

Okra is regarded as a household necessity in the South, but is neither so well known nor so extensively used in the North. Seed should be sown when the weather has become settled, in drills 3 feet apart. Thin out the plants so they will stand from 1 to 2 feet apart in the rows. Gather the pods while they are young, as they become tough and woody when they grow older. One ounce will sow 100 feet of drill.

**WHITE VELVET**—Tall-growing sort, with attractive long white pods, which are round and of velvety smoothness.

**DWARF LONG POD**—Bears in 50 days. Grows three feet high, strong, stocky plant, sending out many branches. Very productive. Leaves and pods are dark green. Pods are 5 to 7 inches long, slender, corrugated and of excellent quality.

**DWARF GREEN**—Bears pods ready for use ten days or two weeks earlier than the tall sorts. The plants are of dwarf, stocky growth, and are very prolific.

**PERKINS' MAMMOTH LONG-PODDED OKRA**—Pods shoot out from the stalk within 3 inches of the ground and the whole plant is covered with them to its extreme height. Pods are an intense green color, 9 to 10 inches long, very slim, and do not get hard.

**CLEMSON SPINELESS**—A uniform spineless strain of Perkins Long Pod type. Plant has less foliage than Perkins; pods rich green, straight, ridged.

### ONION SEED

One ounce will sow 100 feet of drill, 4 pounds will sow an acre.

Sow in the early spring, as soon as weather permits, in rows 12 to 15 inches apart, half inch deep. If the onions grow too thick, thin to 1 inch apart, or only a very few onions will be the result.

For maximum yields use Victory Vigoro Fertilizer at the rate of 400 lbs. per acre.

**GIANT YELLOW PRIZETAKER**—105 days. The American-grown Giant Yellow Prizetaker is far the hand-somest, most productive, most popular, and best of the yellow skin onions. The flesh is pure white, firm and fine-grained and mild in flavor.

**VALENCIA or SWEET SPANISH**—110 days. It is a large well-shaped, brown onion, weighing from 1 to 3 pounds. It is unusually mild but still retains its genuine onion flavor. Planted at the proper time and thoroughly cured, it is a good keeper and will ship as good as any other shipping onion. It requires about 2 pounds to plant an acre.

**CRYSTAL WHITE WAX BERMUDAS**—92 days. Genuine Tenerife grown. A beautiful crystal white with the decided waxy appearance. It is the earliest of the Bermuda varieties, and makes large, flat onions, so mild and sweet that they can be eaten like an apple.

**RED GLOBE**—110 days. Perfectly globe-shaped, about 3 inches in diameter with small neck. Skin rich, dark, glossy red; flesh white with tinge of purple; fine grained. A good keeper and exceptionally heavy yielder.

### PARSLEY

The leaves are used for garnishing meats, fish and other dishes, and as flavoring for soups and stews. Grows in any garden soil. Seed is of slow germination and should be planted early in spring in rows 10 inches apart. A few plants will supply a family.

**EVERGREEN**—Is a double curled variety, with heavy, deeply cut foliage, in dense heads. It is uniform dark green, a rapid and strong grower, resistant to frost injury. This variety was given an award of merit in the 1940 All-America trials.

Pkt., 10c; oz., 30c, postpaid.

### PARSNIPS

This is a hardy vegetable used for food for both humans and stock. It is grown similar to the carrot, and requires a rich, loamy soil.

**IMPROVED HOLLOW CROWN**—A great cropper and considered the best for cultivation. The roots are long, smooth, tender, and very sugary.

Pkt., 10c; oz., 20c, postpaid.

### ONION SETS

We Will Gladly Quote Prices on Request

### BERMUDA ONION PLANTS

300 plants for 100 ft. row

These plants give you two months' start over seed, maturing onions of highest quality. The Bermuda onion is the sweetest type of all onions.

Per bunch, 35c, postpaid.

#### MUSTARD PRICES

|                       | Pkt.   | Oz.    | 1/4 lb. |
|-----------------------|--------|--------|---------|
| Southern Giant Curled | \$ .10 | \$ .15 | \$ .35  |
| Florida Broadleaf     | .10    | .15    | .35     |
| Mustard-Spinach       | .10    | .15    | .35     |

#### OKRA PRICES

|                          | Pkt.   | Oz.    | 1/4 lb. |
|--------------------------|--------|--------|---------|
| Dwarf Green              | \$ .10 | \$ .15 | \$ .35  |
| Perkins Mammoth Long Pod | .10    | .15    | .35     |
| Dwarf Green Long Pod     | .10    | .15    | .35     |
| Clemson Spineless        | .10    | .15    | .35     |
| White Velvet             | .10    | .15    | .35     |



# Perfection Brand PEAS Melt in Your Mouth

Peas require a good, well worked garden soil. Plant as early in the spring as the ground can be worked, for the early smooth seeded varieties, in rows about 8 to 10 inches apart and 1½ inches deep. The wrinkled varieties should be planted later as they require a warmer soil. One quart of seed is required for 100 feet of drill.

**THOMAS LAXTON**—A cross between Gradus and Alaska. In earliness it is two or three days behind Alaska, and in yield, far superior. The pods are larger, containing sweet, large peas of fine flavor. Vines from 30 to 35 inches.

**LAXTONIAN**—A dwarf pea with large, handsome pods very similar to the Gradus, which variety it excels in yield and earliness. Vines average 15 inches in length, and the pods 3½ inches. One of the best peas for private or commercial growing.

**LITTLE MARVEL**—An extra fine dwarf sweet pea. A fine variety for either private or market garden. Extra early. Foliage and pods very deep green; pods 3 inches long, nearly



LITTLE MARVEL

round and square-ended, containing 7 very dark green peas of high quality; very productive.

**LAXTON'S PROGRESS**—One of the earliest large podded, dwarf peas and excellent for home or market gardening. Vines grow about 16 inches, pods 4 inches long, broad and pointed. Makes in about 60 days.

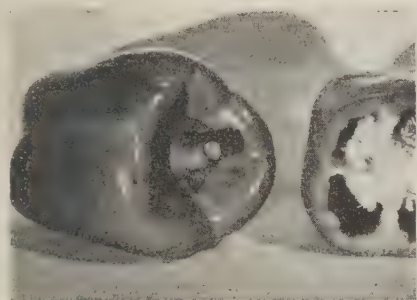
**TELEPHONE**—A large sort, with tall-growing vines. The pods are very large, with large peas of delicious flavor.

**AMERICAN WONDER**—The plants grow only 10 inches high and produce an abundance of medium-size pods, which are filled with large, sweet peas of luscious quality.

**ALASKA**—The earliest smooth pea in existence. The pods are medium in size, well filled and mature practically all at one time.

**MELTING SUGAR (Edible Pod)**—In this variety, which is the best of its class, the entire pod is cooked the same way as string beans. The vines attain a height of 2 feet and are very attractive.

## PEPPERS---Sweet or Hot as You Like



CALIFORNIA WONDER

The young plants are raised like tomatoes or egg plant. They should be set out after all danger of frost is over and the ground is warm. Set the plants about 2 feet apart in rows 3 feet wide. One ounce of seed will produce about 1,500 plants.

**KING OF THE NORTH**—(60 days after setting plants)—One of the earliest of the large peppers. They will average 6 inches long and 3 inches across. Flesh is mild, thick, fine and sweet. The spreading plants are literally covered with large peppers, often 8 to 10 maturing at the same time.

**CALIFORNIA WONDER**—Resembles Chinese Giant in the large size and "blocky" form of its fruit, but has an extremely thick flesh not possessed by that variety. Measures 4½ to 5 inches in length by 4 inches in diameter. Fruits are dark green, smooth in surface. The exceptionally thick flesh is mild and sweet.

**WORLD BEATER**—A very excellent second early variety. Fruits are large, four-pointed, thick walled. The color is dark emerald green. Plants thrifty, vigorous and heavy producers. Very popular in the South.

**CHINESE GIANT**—This is the largest, mild red pepper in existence. The peppers are of enormous size; specimens weighing 18 ounces are found quite frequently. They are of square block form; the flesh is very thick and extremely mild.

**LARGE BELL or IMPROVED BULLNOSE**—A large early sort, with thick, mild flesh.

**HUNGARIAN YELLOW WAX**—65 days. An early-maturing hot yellow variety. The fruit turns crimson when ripe. Fruits are conical shape, averaging about 6 inches in length.

**LONG RED CAYENNE**—110 days. Pods 4 inches long, twisted and pointed. Very pungent, bush about 3 feet tall, a favorite with many Southern gardeners.

**PIMENTO PEPPER**—It is so smooth and uniform in shape that the skin can be easily slipped off after burning over a hot fire a few seconds or by boiling a few minutes in hot water. In quality it is very sweet and delicious and entirely free from pungency; in color, when ripe, it is a beautiful green. It is much sought and grown by canners for pickles and pulp.

**SHORT RED CAYENNE**—Grows about one-half inch across stem end tapering to a point 2½ to 3 inches long. Very hot.

### PEA PRICES

|                   | Pkt.  | Postpaid Lb. | 5 lb.  |
|-------------------|-------|--------------|--------|
| Alaska            | \$.10 | \$.35        | \$1.50 |
| Thomas Laxton     | .10   | .40          | 1.80   |
| Laxton's Progress | .10   | .40          | 1.80   |
| Laxtonian         | .10   | .40          | 1.80   |
| American Wonder   | .10   | .40          | 1.80   |
| Little Marvel     | .10   | .40          | 1.80   |
| Tall Telephone    | .10   | .40          | 1.80   |
| Melting Sugar     | .10   | .40          | 1.80   |

### PEPPER PRICES

|                      | Pkt.  | Postpaid Oz. | ¼ lb.  |
|----------------------|-------|--------------|--------|
| King of the North    | \$.10 | \$.60        | \$1.75 |
| Pimento              | .10   | .50          | 1.50   |
| California Wonder    | .10   | .60          | 1.75   |
| World Beater         | .10   | .60          | 1.75   |
| Bell or Bullnose     | .10   | .50          | 1.50   |
| Chinese Giant        | .10   | .60          | 2.00   |
| Short Red Cayenne    | .10   | .50          | 1.50   |
| Long Red Cayenne     | .10   | .50          | 1.50   |
| Hungarian Yellow Wax | .10   | .50          | 1.50   |



# Quality SEEDS Produce Quality Vegetables

## PUMPKINS FOR PIES

Usually they are planted in the corn field, dropping three or four seeds every fourth hill, but they do better planted by themselves. Plant about 8 or 10 feet apart each way.



SMALL SUGAR

**SMALL SUGAR**—Handsome and prolific, of small size, averaging about 10 inches in diameter; skin is a deep rich orange yellow, fine-grained, sweet, dry and an excellent keeper; a nice table variety.

**KING OF MAMMOTH PUMPKIN**—Also called Jumbo, Mammoth Prize or Mammoth Potiron. On good ground and under high cultivation this pumpkin frequently grows to an immense size. Notwithstanding the enormous size it is one of the best pie pumpkins, having very thick, sweet flesh which cooks quite dry and tender. To grow pumpkins of the largest size it is advisable to leave only one plant to a hill, leaving only one fruit to a plant, and give pumpkin plenty of room.

**LARGE SWEET CHEESE, or KENTUCKY FIELD**—A popular and very productive variety. The ripe fruits are flat, of a rich, creamy yellow color, and measure about 2 feet in diameter.

**IMPROVED GREEN-STRIPED CUSHAW**—A crooked-necked variety, with green and white striped skin. The flesh is of a rich yellow, color, solid, fine-grained, very thick and sweet.

## RHUBARB, or PIE PLANT

It is grown either from seed or by propagation of the roots. The soil for rhubarb should be made extremely rich, using manure every other season. The seed should be sown early in the spring in rows 12 inches apart and 1 inch deep. Thin the plants out to stand 5 inches apart and cultivate throughout the summer. In this section of the Southwest the plants get large enough to use in the fall from seed sown the previous spring, if the season has been favorable. The roots should be planted 3 feet apart in the row and with the crown about 4 inches under the soil. One ounce of seed will sow 100 feet of drill.

**VICTORIA GIANT**—This is a very large and late variety with round stalks of great length and thickness.  
Pkt., 10c; oz., 25c; ¼ lb., 70c, post-paid.

## RADISHES

Our stock of radish seed is grown for us in Michigan. Great care is used in selecting this seed, and the quality is of the best. A trial will convince. They develop best and quickest in light, rich sandy soil. Constant cultivation is necessary to insure radishes of good quality. One ounce will sow 75 feet of drill, 8 to 10 lbs. per acre. Plant radishes and carrots in the same row to conserve garden space.

**WHITE-TIPPED EARLY SCARLET TURNIP**—For outdoor sowing this is the most important sort for the market, thousands of pounds being used annually. Our stock of this is the best. Handsome, bright scarlet color, with white tip. Its fine appearance attracts customers and its quality always pleases.

**CRIMSON GIANT**—An entirely new variety and differs radically from all others, inasmuch as the roots attain more than double the size of the other forcing varieties without getting pithy or hollow. It is very early, notwithstanding its size. Color, crimson; meat, pure white and of the best quality. The seed should be sown very thinly to permit the development of the roots.

**LONG SCARLET SHORT TOP**—Roots grow 5 or 6 inches long and are very attractive, crisp.  
Pkt., 5c; oz., 15c; ¼ lb., 40c, post-paid.

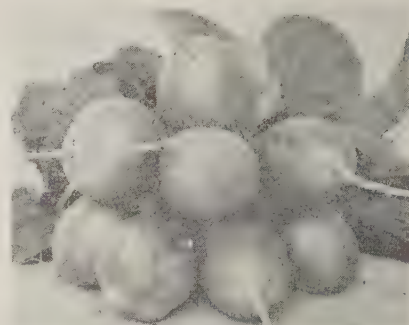
**ICICLE**—The finest eating white radish; has long, slender, pure white roots, which remain fresh and crisp until they grow to a large size; tops are quite short, making it early, and allowing close planting. Icicle radishes are a good crop to follow the first globes.

## WINTER VARIETIES

**CHINA ROSE**—Bright, deep rose color.

**LONG BLACK SPANISH**—With black skin and white flesh.

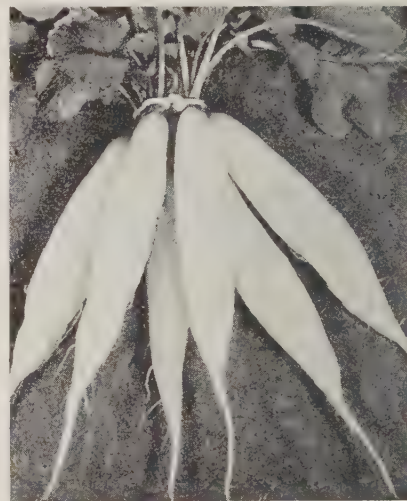
**CALIFORNIA MAMMOTH WHITE**—Roots white and when fully matured 9 to 12 inches long by 2 to 4 inches in diameter. Flesh firm, crisp, well flavored.



SCARLET GLOBE

**EARLY SCARLET GLOBE**—This is a splendid variety for hot-bed greenhouse culture. We consider it the best of the round scarlet forcing sorts. The radishes mature quickly, producing small growth of tops, and are solid and crisp; very uniform in shape. The color is a handsome, bright scarlet.

**EARLY FRENCH BREAKFAST**—A beautiful olive-shaped sort of bright scarlet color, with well-defined white tips; a rapid grower; very mild and tender.



ICICLE

## PUMPKIN PRICES

|                      | Pkt. | Postpaid Oz. | ¼ lb. |
|----------------------|------|--------------|-------|
| Small Sugar          | .10  | \$.25        | \$.75 |
| Kentucky Field       | .10  | .20          | .50   |
| King of the Mammoth  | .10  | .30          | .75   |
| Green Striped Cushaw | .10  | .25          | .75   |

## RADISH PRICES

|                          | Pkt. | Postpaid Oz. | ¼ lb. |
|--------------------------|------|--------------|-------|
| Scarlet Globe            | .10  | \$.15        | \$.35 |
| Crimson Giant            | .10  | .15          | .35   |
| Icicle                   | .10  | .15          | .35   |
| Long Scarlet             | .10  | .15          | .35   |
| French Breakfast         | .10  | .15          | .35   |
| Early Scarlet White Tip  | .10  | .15          | .35   |
| China Rose               | .10  | .15          | .35   |
| California Mammoth White | .10  | .15          | .35   |
| Long Black Spanish       | .10  | .15          | .35   |



# It Always Pays to Plant Perfection Brand

## SQUASH

Squashes require a warm, fertile soil of sandy nature for best growth. Summer squashes grow mostly in compact bush form; hills for these should be about 4 feet apart; for long trailing fall and winter varieties hills should be 8 to 12 feet apart each way. If ground is not very rich two or three shovelful of well-rotted manure should be worked into each hill. Put 8 to 10 seeds in each hill about 1 inch deep. When danger of bugs is over, thin to three or four of the strongest plants.

**WHITE BUSH or PATTY PAN**—The best early variety. The plants are of true bush form and produce fruits very early in the season. Largely grown in the South for shipment to northern markets.

**ZUCCHINI**—65 days. Fruits are long, cylindrical, grey green to dark green in color. Length is 13 to 15 inches, width  $4\frac{1}{2}$  to  $5\frac{1}{2}$  inches. Flesh is greenish white when edible and is of good flavor.

**CONNECTICUT STRAIGHTNECK**—A new early productive summer squash. Has small vine growth, about half the size of standard commercial varieties, which has valuable advantages as much thicker plantings can be made, resulting in really heavy crops. The fruit grows to a length of about 10 inches in a week after blossoming. The color is, briefly, lemon, and we like this color better than in some strains, as the fruits in the vegetable stands always have a distinct, fresh appearance. This type produces fruit about two weeks ahead of any similar strain.

**TABLE QUEEN or ACORN**—An excellent table squash. The fruits are about half the size of a coconut, and half of one, baked, serves one amply. The shell is smooth and dark green, deeply furrowed and keeping as well as the Hubbard. Flesh is rich orange-yellow, cooking as dry and sweet as sweet potato. Heavy yield. 80 days.

**HUBBARD**—The most widely grown winter squash. Large and heavy, with bright orange flesh; fine grained, very dry, sweet and richly flavored; fine keeper; none better for squash pies.

**YELLOW SUMMER CROOKNECK**—The plants are very productive and early bearing; skin of fruits very thickly warted and of orange-yellow color.



YELLOW SUMMER CROOKNECK

## TURNIP

For spring sowing plant as early as the ground can be worked and for fall sowing plant from August to October 1st in this latitude. One ounce will sow 200 feet of drill. Turnips prefer a light, sandy loam. Sow in rows 12 to 18 inches apart and half-inch deep. Thin out so the plants stand 4 inches apart.



PURPLE TOP WHITE GLOBE

**PURPLE TOP WHITE GLOBE**—Form large globe-shaped roots very rapidly. The upper half is a purplish color while the lower half is a pure white; the flesh is pure white, crisp and of excellent table qualities.

**EARLY PURPLE TOP STRAP-LEAVED**—50 days. Medium size, flat grained and tender, an excellent variety.

**WHITE EGG**—Of handsome oval form with perfectly thin white skin. It grows very quickly and the flesh is very firm, sweet and mild.

**IMPROVED PURPLE TOP RUTABAGA**—Requires a longer season in which to grow than turnips, but flesh is of superior quality and keeps better.

**SEVEN TOP**—Does not produce a good root, but is extensively grown in the South for the leaves, which are used for greens; very hardy and keeps better.

**LARGE YELLOW or AMBER GLOBE**—Grows to a large size and is chiefly used for stock feeding; flesh yellow, firm and of good keeping qualities.

**COWHORN**—A long, white turnip, 12 to 15 inches in length,  $2\frac{1}{2}$  inches in diameter. Of rapid growth, producing large, heavy roots in 65 to 75 days. Very hardy. One of the best and sweetest for home use or for stock feeding.

## SPINACH

A spring plant used for greens. Very hardy and most in demand in early spring and late fall. Leaves are large, rich and tender. Very easy to culture and grows best in cool weather. Rapid growth is desirable that leaves may be strong and tender. Soil should be rich and given good cultivation. For fall use seed may be sown in the middle of September. One ounce will sow 100 feet of drill.

**BLOOMSDALE**—This is the most popular variety. The fleshy leaves are of true Savoy appearance; very hardy.

**NEW ZEALAND**—Best for hot weather. Yields continuously from late spring to late fall. During the summer months when ordinary spinach bolts and goes to seed, this variety is at its best. It thrives on almost any soil and withstands drouth wonderfully well. The plant is bushy in form. As the tops are cut off, side shoots develop and in a few days another crop may be cut. Seeds should be soaked in warm water for 24 hours to hasten germination. Plant in March or April, 3 to 4 seeds in hills 2 feet apart each way.

## SALSIFY or VEGETABLE OYSTER

So called because of resemblance in flavor to the oyster when cooked. Tap root is long and resembles a parsnip and one-half the size of an ordinary parsnip. Requires a deep, rich soil and the whole season to mature in. Plant seed about 1 inch deep in drills 12 inches apart, later thin out young plants to 4 to 5 inches. One ounce will plant 70 feet of drill. Roots may be dug and stored in fall or left in ground over winter.

**MAMMOTH SANDWICH ISLAND**—Grows very large; well flavored and mild.

### SQUASH PRICES

|                                | Pkt. | Oz.   | Postpaid | 1/4 lb. |
|--------------------------------|------|-------|----------|---------|
| White Bush or Patty Pan.....   | .10  | \$.20 |          | \$.65   |
| Connecticut Straightneck ..... | .10  | .20   |          | .65     |
| Table Queen or Acorn.....      | .10  | .20   |          | .65     |
| Yellow Summer Crookneck.....   | .10  | .20   |          | .65     |
| Hubbard .....                  | .10  | .20   |          | .65     |
| Zucchini .....                 | .10  | .20   |          | .65     |

### SPINACH PRICES

|                   | Pkt. | Oz.   | Postpaid | 1/4 lb. | Lb.   |
|-------------------|------|-------|----------|---------|-------|
| Bloomsdale .....  | .10  | \$.15 | \$.25    |         | \$.50 |
| New Zealand ..... | .10  | .25   | .50      |         | 1.00  |

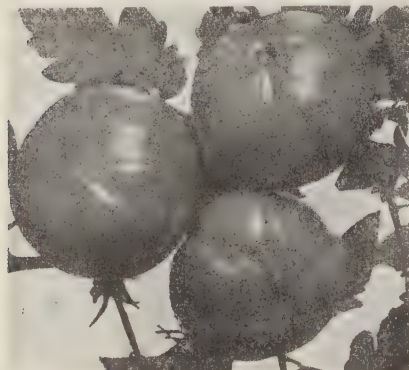
### TURNIP PRICES

|                             | Pkt. | Oz.   | Postpaid | 1/4 lb. | Lb. |
|-----------------------------|------|-------|----------|---------|-----|
| Purple Top White Globe..... | .10  | \$.15 | \$.25    |         |     |
| Purple Top Strap Leaf.....  | .10  | .15   | .25      |         |     |
| White Egg .....             | .10  | .15   | .25      |         |     |
| Purple Top Rutabaga.....    | .10  | .15   | .25      |         |     |
| Seven Top .....             | .10  | .15   | .25      |         |     |
| Cowhorn .....               | .10  | .15   | .25      |         |     |
| Amber Globe .....           | .10  | .15   | .25      |         |     |



# Tomatoes for Juice, Soup or Good Eating

Everyone likes a good tomato and every garden should have at least a dozen hills of tomatoes. They may take a little more work than some other vegetables, but the occasional hoeing needed is well repaid by the constant supply of delicious fresh fruit all summer long. When the first frost comes in the fall, there are usually a number of green tomatoes left on the vines. These make an excellent pickle which will be relished the whole winter. We pay special attention to raising tomato plants for the home garden.



PEARSON

**PEARSON**—An early main-crop, scarlet fruited variety, having a compact self-topping vine. Like other determinate types the cluster of fruit set close together on the branch with only one or two leaves between clusters. The tomato is a slightly flattened globe-shape, very smooth, with a tough skin which shows practically no cracking. Yields are very heavy and the size is good when grown with proper soil fertility. Owing to its tough skin it is entirely possible that Pearson fruits for long distance shipping may be allowed to reach the pink stage of maturity before being picked, instead of harvested when mature-green—thus the consumer would be provided with a product of higher quality. Acre yields of thirty tons have been recorded in Indiana and California.

**SPARKS' EARLIANA**—Coming into the market before any other sort, it commands top prices. The fruits are solid, uniform in shape, and of a rich bright-red color. The tomatoes are produced in clusters, and generally can all be gathered in about three weeks from the time the first fruits ripen.

**MARGLOBE**—This tomato is a perfectly globe-shaped tomato of the most beautiful red color. It bears an abundant crop of good sized fruit which ripens well up to the stem. It is a second early sort and has proven to be disease resistant in the section where tomato diseases are most prevalent.

## FRUITONE

For best set of tomato blossoms and a larger crop, spray blossoms once a week for the first four weeks after blooming starts. If a stronger solution is used for the spray, most of the tomatoes will be seedless.

Pkt., 2/5 oz., 25c; 2 oz. pkt., \$1.00, postpaid.

**CHALK'S EARLY JEWEL**—One of the best early tomatoes yet introduced. The vines are vigorous and very productive. Fruits deep scarlet red, nearly round or somewhat flattened, smooth, of large size and most excellent quality. They ripen very early, and the pickings continue through a long season.

**GULF STATE MARKET**—Its many excellent qualities make it a very desirable sort for the home gardener or the grower for local markets. Fruits medium to large, round or globe shaped, show but little depression about stem and are smooth and free from cracks. Color, deep purplish pink, ripening well about the stem.

**RUTGER'S**—This tomato has thick outer and inner walls of solid meat, with very small seed cavity. It is scarlet-red color, globe shaped, resembling Marglobe. Ripens first in the center of the fruit, so that when red on the outside the tomatoes are ripe all through.

**DWARF CHAMPION**—The most popular dwarf variety in cultivation. The stocky, sturdy plants are of upright growth, requiring no support. The purplish red fruit begins to ripen early and is produced throughout the season.

**JOHN BAER**—The seed offered here has been carefully bred and vine selected. Has small seed cavity, the fruit is medium size, smooth and firm and of beautiful glossy red color. The vines are sturdy and produce the fruit well above the ground. Early and prolific.

**PONDEROSA**—Largest fruited tomato in cultivation, single fruits often weighing from 2 to 4 pounds and measuring 18 inches in circumference. It is solid and meaty to the heart and has small seed cavities. For this reason selected seed of this variety will always be scarce. Fine for slicing and of excellent flavor.

**NEW STONE**—It is a remarkable yielder, very firm and of a handsome, bright red color. It is of excellent shape with very smooth skin, never cracking, and free from green core.

**JUBILEE**—72 days. Fruits are bright golden orange, thick flesh with few seeds. Attractive when sliced.

**BREAK O'DAY**—The variety is a cross between the Marglobe and Marvana, possessing the disease-resisting quality in both to a very marked degree. In size, color, shape and solidity the fruit is very much like Marglobe but matures from 10 to 12 days earlier. It produces a very heavy plant and from a standpoint of yield is one of the most prolific varieties ever produced. The fruit is globe-shaped and of a beautiful deep scarlet color, and is unusually meaty, producing very few seeds.

**PRITCHARD or SCARLET TOPPER**—It is early, fruits large, smooth, meaty, very red, globular. Vines medium, dense, erect, self-topping and very prolific.

It is an excellent canner and it ripens well up to the stem end. It has a tendency to set a rather large number of fruits, therefore requires either a naturally fertile soil or one well fertilized in order to size up the fruit properly and produce maximum quantity of fruit per vine.

**STOKESDALE**—A new extra early scarlet fruited sort with remarkably solid interior, ripening from the inside outward. Resembles Marglobe in size and shape, but about 10 days earlier.

**BEEFSTEAK**—The fruit grows very large and very smooth. It is oval in shape rather than round like Stone. It is very solid and keeps well on the vines after ripening; has rather few seeds and ripens all over and through at one time. The color is clear, deep red.

**YELLOW PONDEROSA**—A main crop, yellow-fruited variety. Fruit is large, rough and flattened in shape; set in clusters of 3 to 5. Vine makes a medium, rather open growth and shows good wilt resistance.

**RED CHERRY**—Used whole for salads and preserving.

**YELLOW PEAR**—Used whole for salads and preserving.

**OXHEART**—115 days. A late large fruited variety of distinct appearance and perfect quality. Heart-shaped, rosy pink, and very solid fleshed, with few seeds. Mildly acid and of pleasing flavor.

## TOMATO PRICES

|                     | Pkt.   | Oz.    | 1/4 lb. |
|---------------------|--------|--------|---------|
| Pearson             | \$ .15 | \$ .70 | \$2.50  |
| Marglobe            | .15    | .60    | 1.60    |
| Chalk's Early Jewel | .15    | .60    | 1.75    |
| Rutgers             | .15    | .60    | 1.75    |
| Earliana            | .15    | .60    | 2.00    |
| New Stone           | .10    | .40    | 1.20    |
| Ponderosa           | .15    | .85    | 3.00    |
| Dwarf Champion      | .15    | .80    | 3.00    |
| Pritchard           | .15    | .60    | 1.75    |
| Beefsteak           | .15    | .80    | 3.00    |
| Break O'Day         | .15    | .65    | 2.50    |
| Gulf State Market   | .15    | .70    | 2.50    |
| Stokesdale          | .15    | .60    | 2.00    |
| Yellow Ponderosa    | .15    | .80    | 3.00    |
| Yellow Pear         | .15    | .70    | 2.00    |
| Red Cherry          | .15    | .70    | 3.00    |
| Jubilee             | .15    | .80    | 3.00    |
| Oxheart             | .20    | 1.00   | 3.50    |



# Planting Guide for a Vegetable Garden for a Family of Five

| Kind of Vegetable    | No. of 100 ft. Rows | Amount of seed required | Spacing |           | Depth to Cover | Ready for Table | Yields to Expect | Usual Time to Plant                |
|----------------------|---------------------|-------------------------|---------|-----------|----------------|-----------------|------------------|------------------------------------|
|                      |                     |                         | of Rows | in Rows   |                |                 |                  |                                    |
| Asparagus            | 1                   | 50 roots                | 4 ft.   | 2 ft.     | 4 inch         |                 | 40 lbs.          | Fall-Early Spring                  |
| Beans, Bush          | 3                   | 3 lbs.                  | 3 ft.   | 2-3 in.   | 1 inch         | 45-60 days      | 120 lbs.         | May 20-April 25                    |
| Beans, Pole          | 1                   | 1 lb.                   | 4 ft.   | 3-4 in.   | 1 inch         | 60-80 "         | 50 lbs.          | April 1-April 20                   |
| Beans, Bush Lima     | 1                   | 1 lb.                   | 3 ft.   | 2-3 in.   | 1 inch         | 45-60 "         | 20 lbs.          | April 1-April 20                   |
| Beans, Pole Lima     | 1                   | 1 lb.                   | 4 ft.   | 3-4 in.   | 1 inch         | 60-80 "         | 30 lbs.          | April 1-April 20                   |
| Beans, Dry Shell     | 2                   | 2 lbs.                  | 3 ft.   | 3-4 in.   | 1 inch         | 60-80 "         | 10 lbs.          | March 20-April 25                  |
| Beets                | 1                   | 2 oz.                   | 3 ft.   | 3-4 in.   | 1 inch         | 60-80 "         | 100 lbs.         | Feb. 22-March 10                   |
| Cabbage              | 2                   | 1/2 oz.-150 plants      | 3 ft.   | 18-20 in. | 1 1/2 inch     | 90-120 "        | 300 lbs.         | Feb. 22-March 10                   |
| Corn                 | 4                   | 1 lb.                   | 3 ft.   | 12 in.    | 1 inch         | 60-110 "        | 400 lbs.         | March 15-April 15                  |
| Carrots              | 1                   | 1/2 oz.                 | 3 ft.   | 3-4 in.   | 1 1/2 inch     | 75-100 "        | 100 lbs.         | Feb. 22-March 10                   |
| Cucumbers            | 1/2                 | 1/4 oz.                 | 5 ft.   | 3 ft.     | 1 1/2 inch     | 60-80 "         | 75 lbs.          | April 10-May 1                     |
| Cantaloupe           | 1                   | 1/2 oz.                 | 8 ft.   | 4 ft.     | 1 inch         | 120-150 "       | 120 melons       | April 10-May 1                     |
| Egg Plant            | 1/4                 | 1 1/8 oz.-17 plants     | 3 ft.   | 18 in.    | 1/4 inch       | 100-140 "       | 15 lbs.          | April 10-May 1                     |
| Horse Radish         | 1/3                 | 22 roots                | 3 ft.   | 18 in.    | 3 inch         |                 | 12 lbs.          | Fall-Early Spring                  |
| Lettuce, Leaf        | 1                   | 1/4 oz.                 | 3 ft.   | 1-2 in.   | 1/4 inch       | 60-90 "         | 40 lbs.          | March 10-April 15                  |
| Mustard              | 1                   | 1/4 oz.                 | 3 ft.   | 1-2 in.   | 1/4 inch       | 30-60 "         | 40 lbs.          | Feb. 22-March 10                   |
| Okra                 | 1                   | 1 oz.                   | 3 ft.   | 12 in.    | 1 inch         | 90-140 "        | 60 lbs.          | April 1-April 20                   |
| Onion Sets           | 1/2                 | 1 pt. sets              | 3 ft.   | 3-5 in.   | 1 inch         | 40-120 "        | 50 lbs.          | Feb. 22-March 10                   |
| Onion Plants         | 1/2                 | 150 plants              | 3 ft.   | 3-5 in.   | 3 inch         | 40-120 "        | 40 lbs.          | March 10-April 1                   |
| Parsnip              | 4/5                 | 1/2 oz.                 | 3 ft.   | 3-4 in.   | 1 1/2 inch     | 125-160 "       | 60 lbs.          | Feb. 22-March 10                   |
| Parsley              | 1/5                 | 1/20 oz.                | 3 ft.   | 3-4 in.   | 1/2 inch       | 90-120 "        | 6 lbs.           | Feb. 22-March 10                   |
| Peas                 | 2                   | 2 lbs.                  | 3 ft.   | 1-2 in.   | 2-3 in.        | 45-80 "         | 100 lbs.         | Feb. 22-March 10                   |
| Peanuts              | 1                   | 1/2 lbs.-unshelled      | 3 ft.   | 18 in.    | 2 inch         |                 | 10 lbs.          | May 10-June 10                     |
| Pepper-Sweet         | 1/2                 | 1/8 oz. 50 plants       | 3 ft.   | 12 in.    | 1/4 inch       | 100-140 "       | 10 lbs.          | April 10-May 1                     |
| Pepper-Hot           | 1/4                 | 1/8 oz. 25 plants       | 3 ft.   | 12 in.    | 1/4 inch       | 100-140 "       | 5 lbs.           | April 10-May 1                     |
| Potatoes, Irish      | 5                   | 25 lbs.                 | 3 ft.   | 12 in.    | 4 inch         | 75-100 "        | 8 bu.            | Feb. 22-March 10                   |
| Potatoes, Sweet      | 4                   | 300 plants              | 3 ft.   | 10-14 in. | 6 inch         | 120-140 "       | 10 bu.           | May 10-June 10                     |
| Radish               | 1/2                 | 1/2 oz.                 | 3 ft.   | 1-2 in.   | 1 1/2 inch     | 20-40 "         | 10 lbs.          | Feb. 22-March 10                   |
| Rhubarb              | 1                   | 50 roots                | 4 ft.   | 2 ft.     | 4 inch         |                 | 40 lbs.          | Fall-Early Spring                  |
| Salsify              | 1                   | 1 oz.                   | 3 ft.   | 3-4 in.   | 1 inch         | 120-180 "       | 50 lbs.          | Feb. 22-March 10                   |
| Spinach, New Zealand | 1/2                 | 1/2 oz.                 | 4 ft.   | 2 ft.     | 2 inch         | 40-70 "         | 20 lbs.          | Feb. 22-March 10                   |
| Spinach              | 1                   | 1 oz.                   | 3 ft.   | 1-2 in.   | 1 1/2 inch     | 30-60 "         | 40 lbs.          | Feb. 22-March 10                   |
| Squash               | 1/2                 | 1/4 oz.                 | 5 ft.   | 3 ft.     | 1 1/2 inch     | 60-80 "         | 80 lbs.          | April 10-May 1                     |
| Swiss Chard          | 1/2                 | 1/2 oz.                 | 3 ft.   | 10 in.    | 1 inch         | 45-60 "         | 70 lbs.          | Feb. 22-March 10                   |
| Tomato               | 3                   | 1/4 oz.-150 plants      | 5 ft.   | 2 ft.     | 1/4 inch       | 100-140 "       | 450 lbs.         | April 10-May 1                     |
| Turkey               | 1                   | 1/2 oz.                 | 3 ft.   | 2-3 in.   | 1 1/2 inch     | 60-80 "         | 100 lbs.         | August 15-Oct. 1                   |
| Watermelon           | 1                   | 1 oz.                   | 8 ft.   | 4 ft.     | 1 inch         | 100-120 "       | 30 melons        | Feb. 22-March 11<br>April 10-May 1 |



# PERFECTION BRAND FLOWER SEED

You, too, can have a beautiful flower garden. Perfection Brand Seeds are of such a high germinating quality and are so reasonably priced that with a few dollars you can have a show place. A word about planting flower seeds—sow the seeds either broadcast or in rows and cover lightly—a good, general rule is to cover four or five times the size of the seeds—and press soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil.

**AGERATUM**—Summer blooming plants throughout summer and fall. Desirable for borders, hedging, and rockeries. Does well in sun or half shade in any soil.

**Midget Blue**—Dwarf (2 to 3 inches high) with delicate fine foliage which is practically covered with small, true Ageratum blue flowers.  
Pkt., 25c.

**Blue Perfection**—Medium blue, large flowers. Compact plants. 9 inches.  
Pkt., 10c.

**ALYSUM (Compactum)**

**Little Gem**—A low spreading light green plant with small white flowers of a peculiar delicate fragrance. Most effective in masses of plants.  
Pkt., 5c.

**Lilac Queen**—Color deep lilac, habit compact, 6 inches high.  
Pkt., 10c.

**Saxatile Golden Yellow.**  
Pkt., 10c.

**ASTER (Composite)**—The aster is considered the queen of all flowers. For beauty and variety of form and color, it is unrivaled, and of all the flowers is best adapted to win the admiration of all lovers of floral beauty. Set a foot apart. Height, 1½ feet. Annual.

**American Beauty**—Wilt-resistant type. Mixed colors.  
Pkt., 20c.

**Queen of the Market.**  
Pkt., 10c.

**BABY'S BREATH (Gypsophila)**—Annual, 10 to 15 inches. Blooms in May and June. Small flowers on branched stems so thick as to give the plants a white, lacelike effect.  
Pkt., 10c; ¼ oz., 25c.

**BALSAM (Lady's Slipper, Touch-me-not)**—An old favorite garden flower producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion. Half-hardy annual. 2 feet high.

**Mixed Double.**  
Pkt., 10c.

**Bushflowered**—Mixed.  
**Bushflowered**—Torch, red.  
Pkt., 10c.

**CALENDULA, Giant Mixed Shaggy**—One of the most interesting and certainly the most distinct of the new types is the lacinated petal type, Orange Shaggy. Deep orange in color, it is a striking contrast to the formal calendulas in general use.  
Pkt., 15c.

**Pot Marigold**—Mixed colors.  
Pkt., 10c.

**CAMPANULA (Canterbury Bells)**

**Single Mixed Colors.**  
Pkt., 10c.

## HORMONE TREATED

All of our flower seed are treated with a plant hormone to speed up germination, develop root growth to assure more flowers.

**CANDYTUFT (Iberis Umbellata)**—One of the most hardy annuals, useful for cutting and is most effective when grown in a mass. Sow early, ¼ inch deep in fine, rich soil and transplant or thin out to 9 inches apart. Height, 1 foot.

**Perfection Brand Mixed.**

Pkt., 5c.

**CARNATION (Marguerite)**—These are comparatively a new class of carnations. They are highly prized for massing in summer beds and their perfect form, beautiful shades of color and lavish profusion of bloom continue till frost. Semi-dwarf, 10 to 15 inches high. Annual.

Pkt., 10c.

**Chabauds**—Giant mixed.

Pkt., 10c.



CAMPANULA (Canterbury Bells)

**CELOSIA CRISTATA (Cockscomb)**—Showy flowerheads or combs of plush-like finish. They are very ornamental and are easily dried for winter decorations.

**Dwarf Empress**—Dark foliage, dark red flowers.  
Pkt., 10c.

**Dwarf Mixed.**

Pkt., 10c.

**CENTAUREA**

**Gymnocarpa (Dusty Miller)**—Silvery leaves. 2 feet.  
Pkt., 10c.

**CENTAUREA CYANUS (Popular Double Cornflowers)**—An old favorite, noted for its vigorous growth, large size flowers, and extreme doubleness of its blooms. The plants grow 2 to 3 feet tall. Fine for cut flowers.

**Jubilee Gem**  
**Black Boy**  
**Pinkie**  
**Blue Boy**  
**Red Boy**  
**Double Mixed**  
Pkt., 10c.



COSMOS, Sensation

**CHERIANTHUS ALLONI (Siberian Wallflower)**—Best grown as a perennial. Often blooms first year from seed. 1½ feet.

**Orange.**  
Pkt., 10c.

**CHRYSANTHEMUM (Painted Daisy)**—Single annual coronarium. The plants bloom profusely during summer and fall.

**Mixed Colors.**  
Pkt., 10c.

**COSMOS**—The Sensation type of cosmos is today the favorite for cut flower use. The flowers are of immense size, 4 to 5 inches in diameter, with broad, heavy fluted petals which slightly overlap, giving a very full single flower, making it ideal for cut flower use. The flowers are carried on long stems and are freely produced on plants which reach a height of 3 to 4 feet. The flowers are produced within 8 to 10 weeks from the time seed is sown.

**Sensation Pinkie**—Delightful rose shade.

**Sensation Purity**—Glistening white.  
Pkt., 15c.

**Early Mammoth Single**—Mixed.

**Late Mammoth Single**—Mixed.  
Pkt., 10c.

**Early Klondyke Orange Flare**—Bright vivid orange, very free flowering, 2 to 3 feet tall.  
Pkt., 10c.

**COLUMBINE (Aquilegia)**—One of the most popular perennials, easy of cultivation and flowering from early summer until frost. Very desirable for borders and groups among shrubbery. 1 to 3 feet high.

**Long Spurred Hybrids**—Mixed.  
Pkt., 20c.

**CYNOGLOSSUM (Firmament)**—It is a dwarf, free blooming over a long season; flowers a bright indigo blue. It is recommended in dry, even poor soil. 16 inches.  
Pkt., 10c.

**DAHLIA**—The dahlia is one of the most popular occupants of our gardens. Easily raised from seed, which will produce to flower the first season. Half-hardy perennial, 3 to 5 feet.

**Double Mixed.**  
Pkt., 10c.

The best remedy for ailing plants is an application of complete plant food. It can also be used in the rows of the vegetable garden to speed up growth.



# Choice Varieties from the Best Growers



DIANTHUS, Double Mixed

**DAHLIA, Unwin Dwarf Hybrid**—The flower petals are nearly all twisted. Double and semi-double flowers in many charming colors, excellent for cutting.  
Pkt., 20c.

## DIANTHUS

**Heddewigi Laciniatus**—Annual. Plants Dwarf, compact, free flowering, lacinated petals.

**Perfection Brand Double Mixed.**

**Heddewigi Double**—Dwarf, 12 inches. Annual.

**Fireball**—Deep scarlet.

**Chinensis**—Annual.

**Double Mixed.**

Pkt., 10c.

**Plumaris (Clove Pinks)**—1½ feet. Perennial.

**Mixed colors.**

Pkt., 10c.

**DIGITALIS (Foxglove)**—4 feet. Biennial.

**The Shirley**—Enormous spotted flowers mixed.

Pkt., 10c.

**DIMORPHOTHECA, Aurantiaca (African Daisies Cape Marigold)**—Showy annuals. One foot tall, with fine, daisy-like blooms during summer and fall. Good for rock gardens, edgings and cutting.

**Orange Yellow**

**Salmon Beauty**

**Hybrida Mixed**

Pkt., 15c.

**ESCHSCHOLTZIA (California Poppy)**

**Hybrida Erecta Compacta**—An attractive mixture in the most desirable colors.

Pkt., 10c.

**ESCHSCHOLTZIA (California Poppy)**—Spreading varieties. 1 foot. Annual.

**Caroline King**—Deep carmine.

**Golden West**—Yellow with orange center.

**Brilliant Mixed.**

Pkt., 10c.

**FOUR O'CLOCKS or MARVEL OF PERU (Mirabilis)**—This handsome, well-known free flowering favorite does well in any soil and under almost all conditions. Produce large flowers of many brilliant colors. The flowers are at the height of perfection during the afternoon. Height, 2 feet.

**Mixed**—Pkt., 10c.

**FOXGLOVE (Digitalis)**—A very beautiful and interesting old-fashioned plant whose culture is very simple. The bell-shaped flowers borne on long spikes make an exceedingly handsome and stately border. Keep plants 2 feet apart. Height, 3 to 5 feet. Hardy biennial. **Perfection Brand Mixed.**

Pkt., 10c.

**GAILLARDIA (Blanket Flower)**—Annual. Blooms July to October. The annual varieties are very showy and are well adapted for garden decoration and cutting. **Grandiflora.** Double mixed. Two feet, large flowering.

Pkt., 10c.

## GOURDS

**Dipper.**

**Fine Mixed.**

Pkt., 10c.



HOLLYHOCK, Indian Spring

**HOLLYHOCK (Althea Rosea)**—Hardy perennial. The hollyhock is an old garden favorite. The tall, stately spikes bear immense quantities of blooms of the most brilliant colors and as double as a rose. Plant 3 feet apart and water freely. Height, 5 to 6 feet.

**Red**

**Pink**

**Salmon**

**Yellow**

**Mixed**

Pkt., 10c.

**Indian Spring**—Annual. Semi-double fringed flowers in shades of from bright rose to rosy carmine.

Pkt., 10c.

**LARKSPUR (Giant Imperial)**—Tall, upright, compact, basal branching in habit, the Giant Imperials have superseded all other types of larkspurs. The delphinium-like spikes of double flowers, carried on stems 4 to 5 inches long, are compactly placed on upright growing plants, requiring about one-half the space needed for the old stock flowered type.

**White King**—White.

**Blue Bell**—Azure blue.

**Blue Spire**—Very deep violet blue.

**Caroline King**—Deep carmine rose.

**Dazzler**—Rich scarlet.

**Miss California**—Deep rose or salmon.

**Finest Mixed.**

Pkt., 10c.

**LATHYRUS LATIFOLIUS (Hardy Sweet Peas)**—5 to 6 feet.

**Mixed Colors**—White, pink and red.

Pkt., 10c.

**LINUM (Scarlet Flax)**—Annual. 1½ feet.

**Grandiflorum Rubrum**—Crimson flowers, 1 inch or more across. While the flowers last one day, new blooms appear every morning.

Pkt., 10c.

**LINARIA (Toad Flax)**—The Linarias, commonly known as miniature snapdragons, are very charming, free flowering border plants in bright and pastel shades. 18 inches.

**Perfection Brand.**

Pkt., 10c.



LARKSPUR, Giant Imperial Blue Bell

Use a teaspoonful of good, complete plant food with every square foot of soil you use to pot indoor plants. Mix thoroughly, and after a month use the same amount spread on top and wet down.

**HELICHRYSUM (Monstrosum Strawflower)**—

They are very handsome when growing in the open and make unusually fine winter bouquets if cut when partially opened and dried slowly in a cool place, heads downward to keep the long stems straight. They come in a wide range of brilliant and soft colors.

Pkt., 10c.



# MARIGOLD in Variety of Gorgeous Colors



MARIGOLD, Flash

## MARIGOLDS

**Collarette, Crown of Gold**—New, orange, 2½-inch flowers, crested center, broad guard petals, odorless foliage.  
Pkt., 10c.

**Dwarf French Double**—Monarch strain, symmetrical, compact habit, including bronze, orange and mahogany.  
Pkt., 10c.

**Flash**—The new Single French Marigold. All-America winner. A new single Marigold—Flash is especially noteworthy for the bright combination of colors suggested by the name. In most of the flowers a base color of tangerine is overlaid or marked with rich marigold red. In cool weather, this velvety-red predominates in the youngest flowers, while in hot weather the tangerine prevails. Combine deep mahogany red with tangerine and you have Flash. Individual flowers 1½ inches and more across are produced in ten weeks from seed and the plants bloom profusely until frost. Plants perfectly uniform and compact in habit of growth develop into bushy mounds averaging 18 inches in height and 24 to 30 inches in spread. Strong, medium length stems recommend flowers for cutting.  
Pkt., 25c.

**Gigantea Sunset Giants**—The largest flowered of the marigold group. Averaging 5 inches and some attaining a size of 7½ inches across, but they are produced in such profusion that a plant of Sunset Giants is one of the showiest places in the garden. Instead of the usual marigold odor these have a definitely sweet fragrance. This strain comes from 60 to 65 per cent double.  
Pkt., 25c.

**Guinea Gold**—(2 ft.) Carnation-like petals and unusually brilliant golden color make this flower outstanding among marigolds. It lacks much of the pungent odor of other marigolds. The plants bloom very freely, and practically all flowers are double.  
Pkt., 10c.

**Harmony, Dwarf French Double**—Compact plants, free flowering, golden yellow bordered maroon red, scabious shaped.  
Pkt., 10c.

**Harmony Hybrids**—Mixed.  
Pkt., 10c.

**Hedge or Border Marigold**—Carnation flowered. Every plant is identical in habit, height, breadth, extremely bushy, with a flat top and straight sides so that a row of these plants gives the appearance of a neatly trimmed hedge, 20 inches high and 30 inches wide. When in full bloom the entire top and sides of plants are covered with deep glowing orange long-stemmed flowers which grow 3 inches across.

**Spanish Gold.**

Pkt., 15c.

**Carnation Flowered Mixed.**

Pkt., 15c.

**Mission Giants**—The plants grow about 18 inches high and show much more than ordinary amount of vigor. Blooms measure 4 to 5 inches in diameter and are almost a perfect ball. Mixed colors, golden yellow and golden orange.

Pkt., 10c.

**Mission Giants** — Goldsmith, rich golden orange.

**Mission Giants**—Yellowstone, clear golden yellow.

**Mission Giants**—Mixed.

Pkt., 10c.

**Tall Double African Mixed**—Includes ball shaped, peony, carnation and chrysanthemum types.

Pkt., 10c.

**Yellow Supreme**—A large bloom of honey fragrance, with broad, loose, frilled petals of a rich lemon-yellow, largest of true "Carnation flowered" type. Plants are vigorous, with foliage practically free from marigold odor.

Pkt., 10c.



MARIGOLD, Guinea Gold

**MIGNONETTE**—The mignonette is a universal favorite and no other flower is so generally known for fragrance. The dense semi-globular heads of flowers on stalks about 6 inches high, make the whole plant reach to 1 to 1½ feet high. Hardy annual. Mixed.  
Pkt., 10c; ¼ oz., 15c.

**NASTURTIUMS**—Dark leaved.

**Perfection Dwarf Mixed.**

Pkt., 5c; oz., 30c.

**Perfection Tall Mixed.**

Pkt., 5c; oz., 30c.

**NASTURTIUMS, Gleam**—Sweet scented.

**Indian Chief**—Brilliant scarlet.

**Golden Gleam**—Golden yellow.

**Orange Gleam.**

**Salmon Gleam.**

**Scarlet Gleam.**

Pkt., 10c.

**Glorious Gleam Hybrids Mixed**—Wide assortment of colors.

Pkt., 10c; oz., 30c.

**NASTURTIUMS**—Semi-double dwarf. Low, compact, globe shaped plants (1 ft.).

**Golden Globe**—Yellow.

**Scarlet Globe**—Red.

**Gem**—Mixed.

Pkt., 10c.

**NIGELLA (Love in a Mist)**—An old fashioned annual with attractive double flowers, nestled among fine feathery foliage. Nice for cuttings or in borders. 1½ feet tall.

**Hispanica**—Dark blue.

Pkt., 10c.

**NIEREMBERGIA (Dwarf Cup Flower)**—Annual. **Purple Robe**—Rich deep violet purple that will not fade.

Pkt., 30c.

**NICOTIANA AFFINIS (Sweet Scented Flowering Tobacco)**—A free flowering annual, blossoms resemble the petunia, opening in the evening and emit a very powerful perfume. **Crimson Bedder**—Compact, deep crimson, 16 inches.

Pkt., 10c.

**Hybrids**—Mixed.

Pkt., 5c; ¼ oz., 25c.

**PANSIES**—The pansy is a flower that is well known and highly prized in every garden.

**Geneva Giant Mixed**—A large flowering type in a good range of colors.

Pkt., 20c.

**PERIWINKLE, Vinca Rosea**—Blossoms all summer and fall. Plants 1½ feet.

**Mixed Colors**—White and pink.

Pkt., 10c.

**PETUNIA**—Few flowers excel petunias in brilliant and gorgeous display. They commence flowering very early, and continue throughout the whole season. Easily cultivated in almost any soil in a sunny location.

**Hybrids**—Used for mass planting, beds, borders and window boxes. The plants are extremely free blooming. Grow 1½ feet high.

**General Dodd**—Blood red.

**Violacea**—Deep violet.

Pkt., 10c.

**Flaming Velvet**—Deep, velvety blood red.

Pkt., 20c.

**Howard's Star**—Purple white star.

**White King.**

**Rose King.**

**Perfection Brand Mixed**—All colors.

Pkt., 10c.

**HYBRIDA NANA ERECTA**—This group is a dwarf, compact, floriferous and continuous bloomer, undoubtedly the most satisfactory bedding type in cultivation. Height, 1 foot.

**Celestial Rose**—Deep rose.

**Blue Bedder**—Blue.

Pkt., 20c.

**Rose of Heaven**—Brilliant rose.

**Rosy Morn**—Rose pink, white throat.

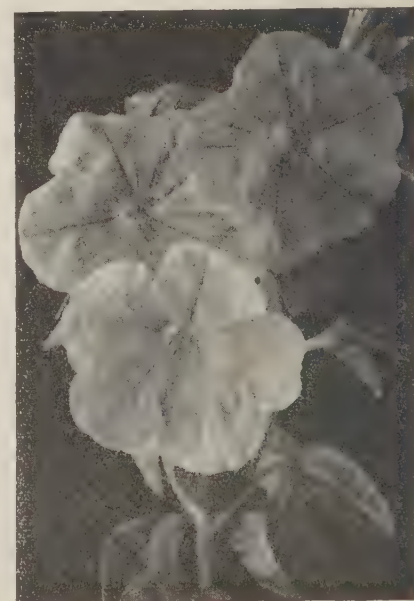
Pkt., 15c.

**Violacea**—Deep velvety purple.

Pkt., 20c.

**Perfection Brand Mixed.**

Pkt., 10c.



PETUNIA, Rose of Heaven



# PETUNIAS *in Colors Soft and Vivid*

## NANA COMPACTA

**Topaz Queen**—(New.) Glowing scarlet rose. Dwarf compact habit, large flowers and many of them.  
Pkt., 20c.

**Exquisite Mixed**—A hand blended mixture of eight compact varieties and very fine.  
Pkt., 20c.

**Alderman**—Dark violet blue with dark throat of velvety appearance.  
Pkt., 20c.

**Blue Bird**—Deep, clear violet blue overlaid with a glistening velvety lustre.  
Pkt., 20c.

**Snowball**—Lovely, pure, satiny white blooms.  
Pkt., 20c.

## RUFFLED NANA COMPACTA

**BALCONY**—Trailing type.

Mixed colors.  
Pkt., 20c.

**PHLOX Annual**—The phloxes are the showiest and most easily raised of all annuals. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades.

Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory. If seed pods are cut off the plants will continue to flower until frost.

**Drummond Grandiflora Mixed.**  
Pkt., 20c.

**Art Shades Mixed.**  
Pkt., 25c.

**POPPY. Shirley, Double Begonia Flowered**

**Sweet Briar**—All double deep rose pink.

**All Double Mixed.**

**Single Mixed.**

Pkt., 10c.



POPPY, Double Shirley

**PORTULACA**—There is scarcely any flower in cultivation that makes such a dazzling display as a bed of many-hued, highly colored portulaca. In bloom all summer until frost. Beds should have full exposure to sun and plants will stand any amount of dry weather.

**Double Mixed.**

**Single Mixed.**  
Pkt., 20c.

**RICINUS (Castor Bean)**—This magnificent foliage plant is picturesquely showy and imposing, lending to the garden a truly subtropical effect. Plant 2 inches deep when all danger of frost is over. Set out or transplant 3 feet apart.

**Perfection Brand Giant.**  
Pkt., 10c.

## ROCK GARDEN ANNUALS

**Choice Mixed**—A splendid blend of 25 varieties suitable for rock gardens. Six inches.  
Pkt., 10c.



SCABIOSA, Blue Moon

**SALVIA (Scarlet Sage)**—One of the handsomest flowering plants we have for garden decoration, blooming in spikes from midsummer until killed by frost.

**Bonfire.**  
Pkt., 25c.

**Farinacea Blue Bedder**—3 feet, rich, deep blue flowers. Free flowering.  
Pkt., 15c.

**SCABIOSA (Mourning Bride)**—The handsome double flowers are borne on long stems, thus adding to their value as cut flowers, while the colors range from pure white through shades of pink and red to blue and black-maroon. Grows 24 inches high.

**Giant Flowered Hybrids Mixed**—Large flowers, unusual colors, ball shaped.  
Pkt., 10c.



SNAPDRAGON, University of California Mixed

## SCABIOSA IMPERIAL GIANT

**Blue Moon**—Three feet. Annual. Dark lavender blue. Broad, heavy, wavy petals without the usual pincushion center; large, deep flowers.

Pkt., 10c.

**SNAPDRAGON (Antirrhinum Rustproof Majus Grandiflorum)**—New strains of rustproof are highly immune to rust disease.

**Brilliant Rose**—Rose pink.

**Padre**—Crimson.

**Yellow Jacket**—Deep canary yellow.

**Shasta**—White.

**Special Mixture.**

Pkt., 20c.

**STOCKS, Double Dwarf Ten Weeks**—A favorite class, coming into bloom in about ten weeks after planting. Compact plants 15 to 18 inches tall.

**Mixed.**

Pkt., 10c.

## SUNFLOWER (Helianthus Annus)

**Sun Gold**—Brilliant yellow, 4 to 5 feet Chrysanthemum-like double blooms 6 to 8 inches across, made up of thousands of small fringed petals forming a broad thick flower of artistic appearance.

Pkt., 10c.

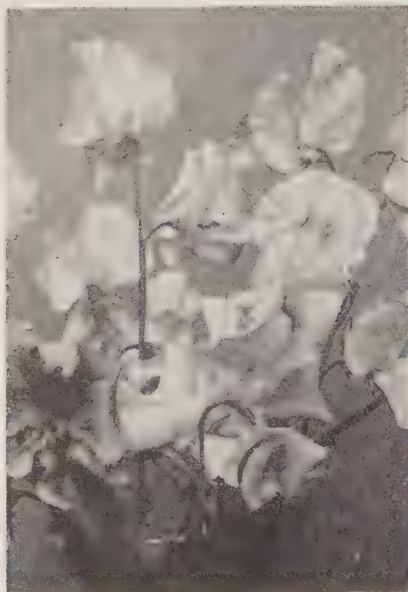
**SWEET WILLIAM (Dianthus Barbatus)**—A well-known, attractive free-flowering plant, producing a splendid effect in beds and borders, with rich, attractive flowers borne in heads or clusters about 18 inches high. Hardy perennial.

**Double Mixed.** Pkt. 10c.

**Annual Mixed.** Pkt., 10c.



# SWEET PEAS and ZINNIAS Are Favorites



SWEET PEAS, Spencer Mixed

## SWEET PEAS

**SPENCER**—Because of such unusual size, waved or fluted appearance and charming blendings of harmonious colors, the new Spencer type may be appropriately described as Gigantic Orchid Flowered. The flowers are not only of extremely large size, but are distinct in having the outer edges of the standard and wings beautifully crumpled or waved. Sweet peas are more than flowers—they are a necessity for every garden.

**Ambition**—Lavender.  
**Bonnie Best**—Rose-pink.  
**Chinese Blue**—Rich deep blue.  
**Colorado**—Bright orange.  
**Hebe**—Bright pink.  
**King White**.  
**Peggy Ann**—Salmon pink.  
**Red Boy**—Crimson.  
**Welcome**—Scarlet.  
**Mixed**.

Pkt., 5c; oz., 20c; ¼ lb., 65c.

**GIANT RUFFLED**—Beautifully ruffled, duplexed and frilled, giving the large, wavy flowers a double appearance. Long stems, each carrying four fully developed blooms.

**Mixed Colors**.  
 Pkt., 10c; oz., 30c.

**EARLY FLOWERING SPENCER**—Come into bloom about three weeks earlier than the summer flowering varieties. Sweet peas do best in cool weather and they will bloom before the summer heat arrives.

If you have not been successful with the late varieties, try some of the Early Flowering.

**Mixed**.  
 Pkt., 10c.

Keep the pods nipped on the sweet peas. They will stop blooming if seeds form.

Inoculate Sweet Peas with  
Nitragin Before Planting

**TITHONIA (Mexican Sunflower)**—Stately plants with deeply cut, dark green foliage, and gorgeous, brilliant orange scarlet flowers 3 to 4 inches across. Charming for cutting and tall backgrounds. Blooms in late fall. Grows 6 feet.  
 Pkt., 10c.

**VERBENA HYBRIDA**—Blooming freely all season until frost and in the most brilliant colors. Admirable for solid beds or masses; also for edging. Sow ½ inch deep in boxes or pots of fine soil, transplant to other boxes 3 inches apart, and plant out in a warm, sunny position in the border when all danger from frost is past.

**Beauty of Oxford**—Rose pink.

**Mixed**.

Pkt., 15c, postpaid.

## ZINNIAS

THE MOST COLORFUL FLOWER OF THEM ALL—PLANT PERFECTION BRAND FOR A RIOT OF COLOR

Our Zinnia seed are grown by Bodger in California, the originator of the dahlia flowered and other types of zinnias. No other annual can take the place of zinnias, with their brilliant flowers of massive size. They have become a general favorite. Zinnia withstands lots of heat, thriving best in a sunny location. For bedding, for borders and for cut flowers, they furnish a wealth of blooms from early summer till late in the fall.



ZINNIA, Will Rogers

**FANTASY**—Fantasy is the most fascinating new zinnia type introduced to the flower world in many years. The informal, shaggy appearing flowers are graceful and interesting. The color range includes the brightest shades of reds, yellow and orange, pinks and white.

**Finest Mixed**.

**Star Dust**—Deep golden yellow.  
 Pkt., 10c.

**DAHLIA FLOWERED ZINNIAS**—In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter.

**Scarlet Flame**—Bright scarlet.  
 Pkt., 10c; ¼ oz., 25c.

**Exquisite**—Light rose with deep rose center.  
**Orlolo**—Orange and gold.

**Canary Bird**—Rich canary yellow.

**Crimson Monarch**—Deep crimson.

**Dream**—Deep rose lavender.

**Polar Bear**—Large creamy white.

**Purple Prince**—Deep purple.

**Will Rogers**—Loveliest and most brilliant scarlet red.

**Mixed Colors**.

Any of the above, Pkt., 10c, postpaid.

**CALIFORNIA GIANTS**

**Mixed Colors**.

Pkt., 10c.

**LILLIPUT**

**Pastel Mixture**—Because of the neat, compact, symmetrical habit of the flowers together with their small size and stem length, they are particularly fine for cutting for bouquets in the house. In the pastel mixture there are very lovely soft shades of apricot, peach, creamy, yellow, shell pink, delicate salmon, light rose and orchid. The plants are 12 to 15 inches in height, neat in habit, compact growing and very free flowering. Produce flowers in about 45 days.

Pkt., 10c, postpaid.

**DOUBLE LILLIPUT**

**Canary yellow**

**Crimson gem**

**Golden orange**

**Purple**

**Rosebud**

**Rose pink**

**White**

In separate colors.

Pkt., 10c.

**CUT-AND-COME-AGAIN (Elegans Pumila Dwarf Double)**—A semi-tall type of zinnia; has become very popular. Produces an abundance of medium-sized, well rounded blooms on stems long enough for cutting. The compact bushes keep on blooming from midseason until frost, making an attractive display in beds or borders and yielding an abundance of long-keeping cut flowers for house decorations. In an average soil the plants grow 18 inches tall.

**Mixed**

Pkt., 10c.

**TOM THUMB MIXTURE**—Tom Thumb is without exception the dwarfest zinnia known. The plants are rounded and compact, 4 to 6 inches high, literally covered with well formed flowers of the Lilliput type. The color ranges include red, orange, yellow, pink, rose and other pastel shades. During the hot, dry summer months this is the ideal border plant, and is also adapted for the window box and pot work.

**Mixed**

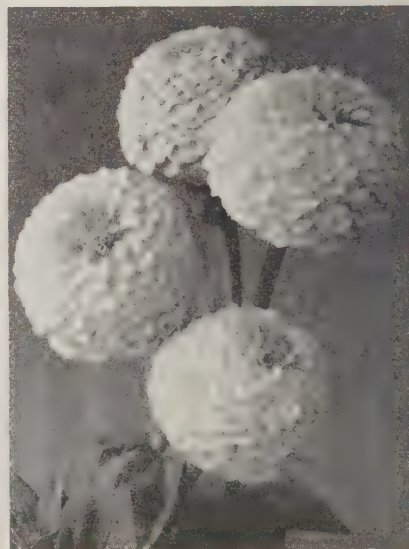
Pkt., 10c.

**GRACILLIMA (Red Riding Hood)**—Deep scarlet, miniature red flowers, 2 to 3 inches, free flowering.

Pkt., 10c.

**LINEARIS**—The most unusual and interesting of the new zinnias is the little dwarf variety, Linearis. The flowers, which are single, are a lovely shade of golden orange, with a delicate lemon yellow stripe through each petal, while the center is a dark brown in the young flowers, turning golden orange.

Pkt., 20c, postpaid.



ZINNIA, Lilliput Pastel Mixture



# GLADIOLUS *for a Rainbow of Color*

Plant in the spring when all danger of frost is over. Plant bulbs four to eight inches apart in the row and from three inches deep in heavy soil, to five inches deep in lighter, sandy soil; the deeper planting will keep the plants from falling over at blooming time. Keep soil well worked; keep soil crust from forming in the rows after rains or other watering. Our bulbs are grown in Oregon where the soil and climate are especially adapted to producing strong, healthy bulbs.

**BIT O' HEAVEN**—Very nice orange with yellow throat.

**DREAM O' BEAUTY**—Large rose red.

**SHIRLEY TEMPLE**—Immense heavily ruffled cream with cream yellow throat.

**PICARDY**—Soft shrimp rose pink. A blotch of light flesh pink shading to shrimp pink at edges. Long spikes carrying 7-10 florets open at a time.

**EXHIBITION MIXTURE**—A well balanced mixture of all colors and varieties. Contains many new and expensive bulbs.

**DOZEN, 85c, POSTPAID**

**MARGARET FULTON**—Clear soft rich dark salmon of a beautiful shade.

**JULES AMOTT**—Glistening deep red, straight stem with 6 to 8 open flowers at a time.

**GATE OF HEAVEN**—Beautiful ruffled deep yellow, 5 to 7 florets open at a time.

**PHYLLIS McQUISTON**—Deep glowing shrimp pink shading a little lighter in the throat.

**BLUE BEAUTY**—Medium blue shading darker toward the edges.

**NEW EUROPE**—Vivid garnet red with small purple stripe in the throat. Long spikes with at least 10 florets open at a time.

**BEACON**—Clear bright scarlet with large cream blotch.

**ALL VARIETIES**

**\$1.00**

**DOZEN, POSTPAID.**

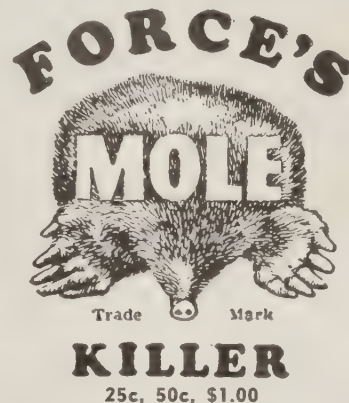
**MARGARET BEATON**—Pure snow white with small orange scarlet blotch in the throat. Six to eight well formed blooms on long spikes.

**SNOW PRINCESS**—Beautiful milky white with cream throat.

**RED LIGHTNING**—Bright pleasing red with cream blotch in throat.

**BETTY NUTHALL**—Warm coral pink with pale yellow throat markings and a slight orange.

**VAGABOND PRINCE**—An iridescent garnet brown lighter in upper throat with a small blotch of glowing flame scarlet on lip petal. A distinct color.



## DAHLIAS--Finest Quality and Selection

**DECORATIVE**—This is the large open faced type with broad usually flat petals to which class we owe so many of our finest dahlias.

**AVALON**—Deep canary yellow.

**ELIZABETH SLOCOMBE**—Red purple.

**ELLINOR VANDEVER** — Glowing rose pink.

**JEAN KERR**—Pure white, fine cut flower.

**MONMOUTH CHAMPION**—Flame red.

**THOS. EDISON**—Royal purple.

**POMPON**—Fully double flowers, ball shaped, or slightly flattened.

**SNOWCLAD**—Pure white.

**CATHERINE**—Canary yellow.

**PURE LOVE**—Deep lavender.

**FASHION**—Orange and buff.

**PEPIN**—Dark crimson.

**ROSE WILMOTH**—Bright pink.

**ALL VARIETIES**

**35c each Postpaid**

**EXHIBITION MIXTURE**—This fine mixture is made up of only the large decorative types of dahlias.

**\$1.50**

**DOZEN, POSTPAID**



**SUDBURY**  
**SOIL TESTING KIT**

Tests for Nitrogen, Phosphorus, Potash and Acidity

Don't plant good seeds in soil where they will not grow. Test your soil, then adjust it to meet your plant requirements.  
**Home Gardener Model...\$2.50**  
**Professional Model .....\$4.75**

### PERFECTION BRAND CANNAS

Our stock is first-class in every respect. We handle enormous quantities of Canna Bulbs and can offer the following at attractive prices.

**PRESIDENT**—Four feet. One of the most popular reds. Flowers are rich, glowing scarlet of immense size. Green leaves. Strong grower.

**CITY OF PORTLAND**—Salmon pink. Large flowers, height four feet. Foliage green.

**DOROTHY S.**—Dwarf, large salmon red flower and a very prolific bloomer. Green foliage. Stands up under drouth conditions better than any other sort.

**KING HUMBERT**—Five feet, bronze foliage. Flowers very large, five to six inches across. Flowers glowing scarlet or orange red, often streaked with gold.

**YELLOW KING HUMBERT**—4½ foot. Foliage, very dark green; flowers a deep rich yellow, softly spotted and blotched with bright red. An orchid flowering sort of the well-known King Humbert.



Size 7, 8, 9 and 10, \$1.25 per pair, postpaid



# CLIMBING VINES *for Flowers and Shade*

Rapid climbers are excellent to shade porches, cover stumps and hide unsightly places. Everyone who has a porch or room that is exposed to the hot sun all summer long will appreciate what it would mean to have a dense, green vine for protection.

**BALSAM APPLE (*Momordica Balsamina*)**—Very curious, rapid and dense climbers with ornamental foliage. Its large golden yellow fruit opens when ripe and displays its brilliant blood-red inside. Hardy annual. 10 to 20 feet.

Pkt., 10c.

**CYPRESS VINE (*Ipomea Quamoclit*)**—A most beautiful climber with delicate dark green, feathery foliage and an abundance of bright flowers. Planted by the side of a veranda, tree or stakes, it attains a height of from 10 to 20 feet. Annual.

Mixed—Pkt., 10c. Red—Pkt. 10c.

**HARDY SWEET PEAS (*Lathyrus Latifolius*)**—Very decorative climbing vines of the Pea family. Flowers are similar to sweet peas and are even more showy, but are lacking in fragrance.

Mixed colors—Pkt., 10c.

**HYACINTH BEAN (*Dolichos Lablab*)**—(Commonly known as Jack Bean)—A splendid climber with hyacinth-like clusters of flowers which are followed by exceedingly ornamental seed pods. Is of rapid growth and stands heat well but not the cold. Half hardy annual. 10 to 20 feet high.

Pkt., 10c; oz., 30c.

**MORNING GLORY, Scarlett O'Hara**—An entirely new color in this popular garden flower, rich, dark wine red, or deep rosy crimson. The flowers are of good size, about 3½ inches in diameter, freely produced on fast growing vines which start blooming within 65 days after seed is sown.

Pkt., 20c.

**MORNING GLORY, Pearly Gates (new)**—1942 winner of the All-America Selections Silver Medal Award. It is a vigorous growing morning glory and is literally covered with big satiny white blooms and is identical in size and foliage with our big Heavenly Blue. It is truly a grand champion.

Pkt., 10c, postpaid.

**MORNING GLORY, Clark's Earliest Heavenly Blue**—It is the earliest flowering variety, makes a sparse growth of foliage and is heavily covered with flowers. A beautiful sky blue color which shades at the center to a golden throat.

Pkt., 10c; oz., 40c, postpaid.

**MORNING GLORY (*Convolvulus Major*)**—One of the most free-flowering and rapid-growing annual climbers thriving in almost any situation. Height 10 to 15 feet.

Imperial Mixed—Pkt., 10c.

**MOONFLOWER (*Evening-Glory Ipomoea*)**—Moonflowers are the most gorgeous and versatile of the climbing plants. It does well trained along the roof of a low house or veranda, and its blossoms are delightfully fragrant. If the seeds are notched they will bloom six weeks from sowing. Annual.

White—Pkt., 10c; ¼ oz., 20c.

**MADEIRA VINE BULBS**—One of the best and most popular climbers for foliage effect. Increases very rapidly.

Each, 10c.

**SCARLET RUNNER BEAN (*Phaseolus multiflorus*)**—A tall, twining plant, covered with crimson blossoms. As an ornamental vine over trellis, arbors, etc., very popular. Annual, growing 12 to 15 feet high.

Pkt., 5c; oz., 15c.

## GOURDS

The dense foliage of the vigorous gourd vine makes it useful for covering arbors, fences, slopes, or unsightly places.

The ornamental gourds are a decorative feature of any garden, and can be varnished when dried for indoor use.

Pkt., 5c.

## Garden Tools



**No. 119 "SNAP-CUT" PRUNER**—Easy "SNAP-CUT" action of keen "V" blade onto non dulling soft metal anvil cuts large, rough twigs.

Each, \$2.50, postpaid.



**No. 149—Long handle "SNAP CUT" pruner.**

Each, \$4.00, postpaid.



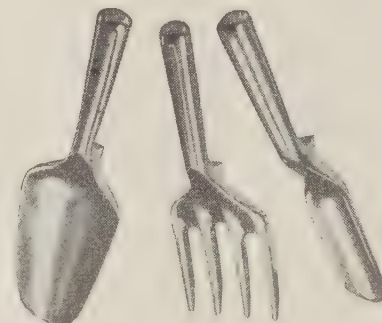
**No. 157—Improved "EZY-CUT" grass shears.** Easy non-tiring, non-pinching "squeeze-grip" action.

Each, \$1.65, postpaid.



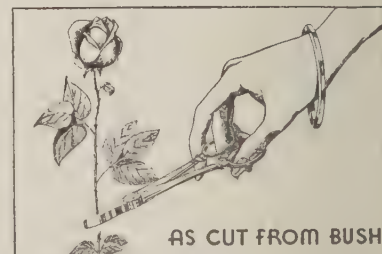
**No. 17—Grass shear.**

Each, \$1.00, postpaid.



**Markle "Featherlite" garden tools—**Solid one piece construction of an alloy aluminum.

Per set, \$4.95, postpaid.



AS CUT FROM BUSH

**No. 615—Rose Holding and Flower Shear.** A thrilling new convenience for every gardening enthusiast. These rustless holding shears cut and hold stems with just one clean snap.

Each, \$2.50, postpaid.



# Have a Beautiful Lawn



**HULLED BERMUDA**—We offer this extra fancy Bermuda Grass with the hulls removed, a new process which gives much quicker germination. Under favorable moisture and soil conditions, Hulled Bermuda Grass will germinate in 8 to 10 days, almost as quick as Rye Grass. It is more economical because half the quantity is necessary to sow 100 square feet of lawn. Be sure to specify hulled seed when ordering, as otherwise the unhulled seed will be shipped.

**FANCY BERMUDA GRASS**—The most dependable summer lawn grass for Southern Gardens. Makes a tough, even, clumpless turf that recovers quickly after cutting. Lasts for years and stands long, hot, dry summer without injury. Succeeds on nearly all types of soil. Germinates in 20 to 30 days with proper soil moisture. For good, heavy stand, sow at the rate of 5 pounds to 1,000 square feet, from March to September. The Bermuda Grass seed we offer is the finest, leaf cultivated turf producing strain.

**KENTUCKY BLUE GRASS** (*Poa pratensis*)—Is the most desirable grass for a beautiful lawn. The leaves are

narrow and deep green in color. It forms a close turf, is slightly creeping and quite hardy. It is recommended alone or in mixtures for lawn purposes. Suited to shady areas.

**REDTOP** (*Agrostis palustris* or *Agrostis alba*)—Belongs to the bent family. It grows rapidly and often thrives where Blue Grass fails. It does not compete with Blue Grass but supplements it; thriving in lime-poor and wet soils where Blue Grass is not at its best. It is useful in restraining the growth of weeds and is used in mixtures.

**ALTA FESCUE**—(Perennial). Excellent grass for shade. Resistant to drought and adapted to this area.

**SHADY LAWN MIXTURE**—Special mixture for shade and quick germination. Good bright green color.

**PERENNIAL SHADE BLEND**—The best blend of shade perennial grasses. Produces a deep rooted sod of velvet-like texture.

**RYE GRASS**—(Perennial). Very valuable variety. Succeeds well on almost any soil, but is particularly adapted to moderately moist lands.

**DOMESTIC RYE GRASS**—Is a quick growing annual, which does not have root-stalks nor stolons and does not form a compact sod. It affords a quick covering and is helpful as a nurse crop to other grasses.

**FESCUE, MEADOW** (*Festuca pratensis*)—This grass is also called English Blue Grass; flat and bright green.

**SEASIDE BENT** (*Agrostis maritima*)—Is produced along the sea coast in Oregon in the low swampy lands. Is known as Coos County Bent, Cocos Bent, and Coos Bent. Is fine leaved, bright green in color, and creeps both below and above the ground. It requires frequent cutting.

**WHITE DUTCH CLOVER** (*Trifolium repens*)—This is a small, close growing, dwarf clover, used extensively in making lawns. It is a rapid grower of spreading habits and can be cut very close to the ground without injury to the plant. It starts regrowing at once after cutting.

**HIGHLAND BENT**—Is a type of Colonial Creeping Bent grown in the uplands of Oregon. It is very hardy, a vigorous grower and will withstand more dry weather than other strains of Bent Grasses.

|                       | POUNDS FOR<br>100 SQUARE FT. | POSTPAID PRICE |          |
|-----------------------|------------------------------|----------------|----------|
|                       |                              | PER POUND      | 5 POUNDS |
| KENTUCKY BLUE GRASS   | 1/2 lb.                      | \$.65          | \$3.00   |
| RED TOP GRASS         | 1/2 lb.                      | .45            | 2.00     |
| HULLED BERMUDA        | 1/4 lb.                      | 1.00           | 4.75     |
| FANCY BERMUDA         | 1/4 lb.                      | .80            | 3.75     |
| WHITE DUTCH CLOVER    | 1/4 lb.                      | 1.00           | 4.75     |
| SEASIDE BENT          | 1/4 lb.                      | 1.50           | 7.00     |
| HIGHLAND BENT         | 1/4 lb.                      | 1.50           | 7.00     |
| RYE GRASS             | 1 lb.                        | .20            | .90      |
| PERENNIAL RYE GRASS   | 1 lb.                        | .35            | 1.65     |
| MEADOW FESCUE         | 1/2 lb.                      | .60            | 2.75     |
| SHADY LAWN MIXTURE    | 1/2 lb.                      | .50            | 2.25     |
| PERENNIAL SHADE BLEND | 1/2 lb.                      | .90            | 4.25     |

WE DESIRE TO ASSIST YOU IN YOUR LAWN PROBLEMS. OUR SEED IS PACKAGED FROM BULK STOCK AND PRICES ON LARGER AMOUNTS WILL BE GIVEN ON REQUEST



# Perfection Brand *High Tested* FARM SEEDS



SOY BEANS

## CLOVER

**WHITE CLOVER** — For lawn purposes this is very desirable on account of its creeping stems. It spreads rapidly and acts as a binder; very hardy; in permanent pastures is of considerable value.

Lb., \$1.20, postpaid.

**HUBAM CLOVER**—This is an annual white flowering sweet clover. Owing to the fact that it blooms the first year from seed, it is used quite extensively for bees. It is also used for pasture and hay. Plant at the rate of 15 to 20 pounds per acre.

Lb., 45c, postpaid.

Ask for quantity prices.

**RED CLOVER**—The most important and best known of all clovers, being used for pasture, hay, and enriching the land. For the latter purpose, it is considered the cheapest fertilizer known.

Lb., 60c, postpaid.

**KOREAN LESPEDEZA**—This variety makes a larger growth than ordinary Japan Clover. 15 to 24 inches, single plants having a spread of 3 feet; has large leaves; furnishes pasture about three weeks earlier. The strong root growth penetrates about 8 inches deep, making it highly drouth resistant, and thriving on poor, worn-out soils where alfalfa and clovers would fail. When sown alone broadcast 20 to 25 pounds per acre, during late freeze after a light harrowing, but do not cover the seeds.

Lb., 30c, postpaid.

Write for prices on quantities.



**INOCULATE**  
Alfalfa, All Clovers,  
Soy Beans, Cow Peas,  
Vetch, Peas, Peanuts  
and all other  
Legumes

See Page 24

**YELLOW HOP CLOVER**—It is a very valuable winter and spring clover and reseeds abundantly. It responds well in increased growth to an application of phosphates, as do all winter legumes. Sow 4 to 8 lbs. per acre.

Lb., 70c, postpaid.

Ask for quantity prices.

**SWEET CLOVER**—Sweet clover is a crop that is hardy; defies wet and drouth; never winter kills, and will grow on land that will not produce alfalfa. Many wet, waxy soils are being farmed unprofitably by other crops that would produce a large crop of sweet clover, and furthermore, sweet clover will turn that poor land into land that will, within four or five years, be nearly 100 per cent better for any other crop that the farmer wants to put there.

Sweet clover has long, deep roots that permit water and air to penetrate to the lower levels of the soil and thus greatly aids the mechanical condition of the soil. As sweet clover is a legume it increases the nitrogen content of the soil. Wheat, corn or alfalfa grown on a field following sweet clover are greatly improved. Yields of 10, 15 and 25 per cent increase are not at all uncommon.

Sow in the spring. It takes about twenty pounds of hulled seed to the acre. White or yellow.

Lb., 30c, postpaid.

Write for prices on quantities.

## SUNFLOWER

**MAMMOTH RUSSIAN** — Produces very large heads, which are completely filled with the striped grains. It succeeds everywhere, and requires very little rain to insure a good crop. It makes a good food for stock and cannot be equaled as a food for poultry. Plant when the ground has become warm at the rate of 22 pounds to the acre.

1/2 lb., 25c, postpaid.

## SOY BEANS

Soy beans are very erect, growing with from one to six stems or more, branching out from the roots and reaching a height of 1 1/2 to 3 1/2 feet; seldom falling down, except in very rich, loose soil. Soy beans are a remarkable drouth-resister, and will do comparatively well on thin land; however, they respond very readily to moisture and rich land. Planting should not be done until the weather is warm and after the corn planting.

**LAREDO SOY BEANS** (Plant 15 pounds per acre)—A very small black bean and recognized as one of the best hay varieties. One of the good features of the Laredo, is that it can be planted earlier than other varieties with the assurance of getting good germination, as the seed will stand more abuse from weather than any other soy bean. Laredo is medium early and a good grain yielder; it is bad about shattering and must be harvested when ready or a loss will result. Matures in 120 to 130 days. Yield around 2 tons per acre.

Ask for prices when ready to buy.

**VIRGINIA SOY BEANS** (Plant 20 pounds per acre)—A small brown seeded variety. Early. Will make hay in 60 to 80 days. Matures in 100 to 120 days. A very good grain yielder, but shatters badly when ripe. Should be harvested for seed while foliage is still on stalk in order to avoid loss.

Ask for prices when ready to buy.

**MACOUPIN**—An early yellow variety which has a high oil content. Matures in 110 or 115 days. In eastern Oklahoma last year the harvest started last of August and was completed in early September. This is an ideal variety to plant when you want to follow up with winter grain crops.

Ask for prices.

## MUNG BEANS

Mung beans bid fair to outrival anything yet discovered as a hay, forage and soil improving crop. Mung beans are drouth resistant and have made wonderful crops of hay and forage where cow peas and soy beans have been killed off completely by the blistering and withering heat of an extended summer's drouth.

Mung beans mature about twenty days earlier than soy beans and cow peas and invariably have produced larger tonnage of hay and forage as well as large production of beans. Requires about 8 lbs. per acre. Plant in rows about 3 1/2 feet apart and 2 to 4 inches apart in the rows.

## GREEN SEEDED.

Lb., 45c, postpaid.

Ask for prices on larger lots.

We are large dealers in Cow Peas and are in a good position to quote you attractive prices on lots of one bushel to a carload. Write us. If you have Peas to sell, send us a sample, stating quantity you have to offer. Make up and send us your order early.



# Produce Abundant, Profitable Cash Crops

## FIELD OR COW PEAS

The great soil improver. Makes poor land rich; makes good land more productive; also makes a splendid and nutritious green forage or hay crop, enriching the soil even when the crop is cut off. Cow peas make one of the largest yielding and most nutritious crops grown. There is also no surer or cheaper means of improving and increasing the productivity of the soil and it is really considered more economical and the best way is to cut off the crop of vines and cure them as a forage or hay crop and then turn under the stubble and roots. Even when the crop is cut off, the land is left in very much better mechanical condition and the productivity very much increased over what it was before the crop was grown.

**BLACK-EYED PEAS**—A very fine table pea much in demand by market gardeners. Pods are of good size and the peas are crowded in the pod.

Ask for prices.

**NEW ERA**—Probably the best sort for the West and North; can be sown after the wheat is taken off the ground and still produce a good crop of forage peas, besides increasing the fertility of the soil for the succeeding crop, and leaving the ground mellow and free from weeds.

Ask for prices.

**WHIPPOORWILL PEAS**—A favorite in the South generally. A vigorous, healthy grower, yielding an abundant crop of forage and grain.

Write for prices.

**CREAM CROWDER PEAS**—It is not only one of the earliest to mature, but also makes a large and vigorous growth, and is one of the most prolific and best for edible peas, both for home use and market. The size of the pea is large and they are of most delicious flavor when cooked, and preferable for table use to other varieties. This also makes a quantity of vine.

Write for prices.

**BROWN SUGAR CROWDER PEAS**—One of the most valuable varieties for table use. Heavy bearers of the finest quality.

Write for prices.

**GALLAVANT or LADY**—The peas are small in size, of very fine flavor; superior in qualities to the Black-Eyed Peas. Very prolific.

Write for prices.

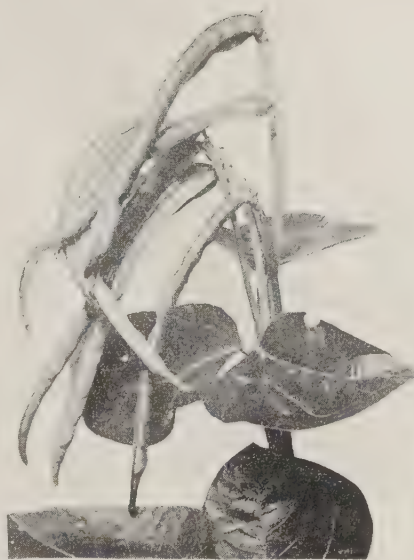
## DWARF ESSEX RAPE

Sow 5 to 7 pounds per acre. As a healthy fattening food it has no equal. It stands without a rival in point of cheapness and feeding qualities. It is an annual, bearing a close resemblance in leaf and stalk to the rutabaga, but both leaves and stalk are more numerous in the rape plant and of a taller habit of growth. Dwarf Essex Rape thrives best on a good soil rich in vegetable matter. Slough lands are excellent. It is the simplest crop grown. It can be sown anywhere and everywhere at all times after danger of frost has passed.

It may be sown in early spring to provide summer pasture for stock. Plow the ground same as for turnips, and sow 5 pounds per acre broadcast.

Lb., 35c, postpaid. By freight or express, lb., 25c; 10 lbs., \$2.30.

Special prices on large quantities.



CROWDER PEAS

## PEANUTS

Prepare the ground well, laying it off in rows, with a shovel-plow; the rows should be 3½ feet apart, and put two kernels to the hill, which are about 1 foot apart. Cultivate thoroughly, and keep the land as level as possible. Three-fourths of a bushel of unshelled nuts will seed an acre.

**MAMMOTH JUMBO**—This variety grows to an astonishing size. The plants make compact bushes about 18 inches high, with heavy, erect stalks and large leaves. The giant nuts have thick, heavy-ribbed shells.

Lb., 45c, postpaid.

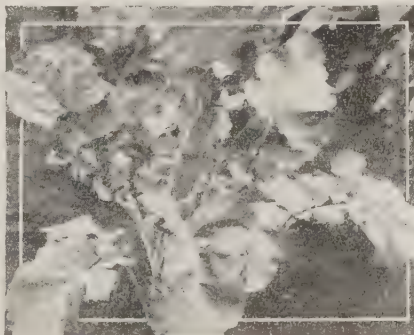
Write for prices in quantities.

**TENNESSEE RED**—The finest variety grown. Especially adapted to the black waxy land, as well as the sandy soil. The nuts contain three large kernels in each pod, and are enormously productive.

Lb., 35c, postpaid.

**SPANISH**—In addition to their value for growing for nuts, these are very largely used in the South as a forage and fattening crop for hogs and other stock. They are early to mature, very productive. They grow more compact than the Virginia peanuts, making it possible to grow them closer, making cultivation easier also.

Lb., 30c, postpaid.



DWARF ESSEX RAPE

## TOBACCO

The seed should be sown as early as possible after all danger of frost is over. A good plan is to burn a quantity of rubbish and brush in the spring on the ground where the crop is to be grown, then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly. When the plants are about 6 inches high transplant into rows 4 or 5 feet apart each way; cultivate thoroughly with plow and hoe.

**CONNECTICUT SEED LEAF**—An old, well-known variety.

Pkt., 10c; oz., 50c.

**WHITE BURLEY**—Well-known sort. Our seed is grown on the famous limestone fields of Tennessee.

Pkt., 10c; oz., 50c.



WHITE BURLEY

## BUCKWHEAT

Buckwheat is used mostly for filling fields unplanted after the first of June. The blossoms furnish a large amount of honey for bees. It is well to remember that on worn-out soils a plowed-under buckwheat field is a great fertilizer and improver. Sow 25 lbs. to an acre.

**JAPANESE**—A popular and standard sort. Very large grains of dark brown color; early and heavy-yielding. Choice re-cleaned seed.

Lb., 15c; 10 lbs., \$1.30, postpaid.

## Winter Legumes for Fall Planting

Halry Vetch      Hungarian Vetch  
Crimson Clover      Southern Burr Clover  
Austrian Winter Peas

**FOR WINTER PASTURE**—Plant Winter Rye Grass during September. Rye Grass is the fastest-growing grass known. Makes more pasture than Wheat, Rye, Oats or Barley. Lasts up to latter part of June, when if given a chance will reseed itself, starting to grow again when fall rains set in.

**RYE GRASS** also makes a fine green fall, winter and spring lawn sown on Bermuda sod or as a new lawn. We issue a special circular in August on Winter Legumes and Rye Grass and will be glad to mail copy on request.

## PRICES CHANGE

Write for Price  
on Quantities Lots  
WE CAN SAVE YOU MONEY



# Perfection Brand GRAIN SORGHUMS



A FIELD OF PERFECTION BRAND HEGARI

**DARSO** is low growing, heavily foliaged, and has a large stalk which is usually tinged with red. It is remarkable for its uniformity in height and uniformity in shape and color of heads. The stalks are sweet and juicy, and chemical analysis of grain shows that the composition is very similar to that of Kafir. Darso matures earlier than Kafir, which fact has much to do with its drouth resistance. Darso makes excellent silage, and can be used for grain, forage or silage crop.

Lb., 20c, postpaid.

**GERMAN MILLET**—Makes a large yielding and most nutritious hay crop, quick growing and easily cured.

Lb., 15c, postpaid.

Ask for quantity prices.

**HEGARI**—A new grain or forage crop similar to both White Kafir and Feterita. It is more desirable for grain than either, as the bad qualities of both have been eliminated. Feterita shells out pretty badly, and Hegari will not shell. Feterita is soft and pithy, while Hegari is solid and sound and with plenty of blades. Its dwarf habit of growth, 4 to 5 feet in height, and compact heads of large white grains make it very attractive. Hegari also produces large crops of grain. The stems are rather sweet and horses and cattle eat the stalks, fodder and grain if permitted to do so.

**ARIZONA GROWN HEGARI**—Certified stock well re-cleaned and of high germination.

Lb., 20c, postpaid.

Ask for quantity prices.

**KAFIR**—The uplands of Kansas, Oklahoma and Texas will give much better cash returns when planted to Kafir, because when ground for feed, gives practically the same feeding value as corn. It does not require very much Kafir seed an acre when drilled in rows 3½ feet apart. 2 to 4 pounds of seed to the acre is all you will need. If you want to sow the seed broadcast or drill it with a drill for fodder, use

**DWARF BLACKHULL WHITE KAFIR.**

**MARTIN'S COMBINE MILO MAIZE**—Is an early dwarf straight-necked variety that exerts its head well above the leaves. Arizona grown seed.

Ask for quantity prices.

**ATLAS SORGO**—Has a sturdy, leafy stalk abundantly juicy and sweet. The heads are fairly compact, somewhat cylindrical in shape with short branches well filled with white seed similar in size and shape to Kafir. Grows to a height of 7 to 10 feet and requires from 120 to 130 days to mature. Atlas is noted for its resistance to lodging, superior quality of grain, high yield and excellence of forage. Selected seed grown from Certified stock.

Write for quantity prices.

May 7, 1913.

All my seeds came up which I purchased from you. My mother bought seeds from you for years. I also have been buying your seeds for several seasons and they always come up and produce good crops. I remain,

Very respectfully,

Mrs. W. A. Rampp.

## Saccharine SORGHUMS for Forage

**EARLY ORANGE**—Matures a grain crop in 100 to 120 days. It is later than the Amber. Its stalks are heavier and shorter than the Amber. Its forage quality is first-class. It is very valuable for ensilage. One of the heaviest producers of ensilage of the entire sorghum family. Fodder quality.

**RED TOP or SUMAC**—In our opinion this is the best variety for forage or dry hay. The stalks are much smaller than either of the Amber or Orange varieties. There is no better quality for forage than the Red Top. It will remain sweet and wholesome until late in May of the year following harvest.

**SUGAR DRIP CANE**—This variety is earlier than the Japanese Ribbon, smaller stalk and makes a light color syrup, milder in taste than most varieties.

Lb., 30c; 10 lbs., \$2.50, postpaid.

Ask for quantity prices.



### BORDEN'S RATION-AYD

is the new, easy way developed through Borden research to feed your chicks the parts of Milk and Fish most needed for healthy growth.

Ration-ayd is easy to feed and inexpensive. A 5-lb. package is all you need for 200 chicks for 8 weeks. Just sprinkle a few spoonfuls on the mash each day.

Field Seed prices fluctuate considerably and for this reason we do not quote prices in our catalogue. We issue a field seed price list throughout the planting season with lowest market prices and we will be glad to mail list on request.

#### OUR FIELD SEEDS ARE ALL OF VERY HIGH QUALITY

There are several grades of field seeds on the market and prices differ according to grade. Be careful when buying, especially when you see seeds offered for considerably less than market value. **ASK FOR PRICES WHEN YOU ARE READY TO BUY**

Inoculate all Legume Seeds with

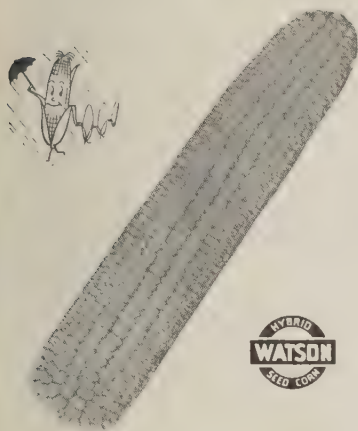
## NITRAGIN

1898—A HALF CENTURY OF SERVICE—1948  
When ordering, Always state name of seed

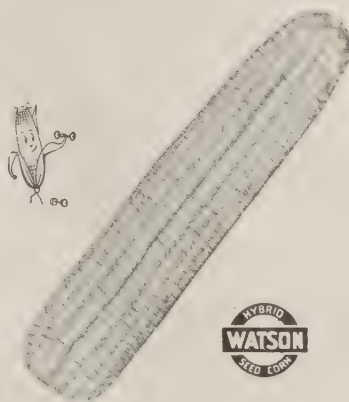
|   |   |
|---|---|
| <b>ALFALFA (A)</b><br>Swt., Bur, Hubam Clovers<br>Size Retail<br>1 bu. each...\$ .50<br>2½ bu. each... 1.00                                   | <b>SOYBEANS (S)</b><br>Size Retail<br>Small, (Inoculates up to 120 lbs. seed) \$ .30<br>5 bu. each..... .55<br>25 bu. each..... 2.50<br>(One can) |
| <b>CLOVERS (B)</b><br>Red, Alsike, Crimson, White and Ladino.<br>1 bu. each...\$ .50<br>2½ bu. each... 1.00                                   | <b>BEANS—Navy, Pinto, Wax, String, Kidney and Great Northern</b><br>1 bu. each.....\$ .35   |
| <b>LESPEDEZA (L)</b><br>100 lb. size (Inoculates up to 100 lbs.) ..\$ .50   | <b>PEANUTS, COW PEAS (E)</b><br>Small, (Inoculates up to 120 lbs. seed) \$ .30<br>5 bu. each..... .55<br>25 bu. each..... 2.50<br>(One can)       |
| <b>PEAS, VETCHES (All Varieties)</b><br>100 lb. size (Inoculates up to 100 lbs.) ea. \$ .50<br>1200 lb. size ea. \$ 5.70<br>(12-100 lb. cans) | <b>30 bu. each..... 3.25</b><br>(6-5 bu. cans)  |
| <b>LUPINES (All Varieties)</b><br>100 lb. Size (Inoculates up to 100 lbs. seed) ea. \$ .50  |   |
| <b>GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima Beans and Edible Soybeans</b><br>Enough for 8 lbs. seed — Retail Price 10c each         |   |



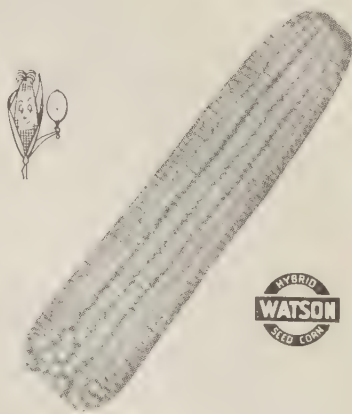
# Perfection Brand SEED CORN--POPCORN



**WATSON HYBRID NO. 9W (White)**—An early to mid-season prolific and vigorous double cross white hybrid produced by combining the two single crosses 102A x 155A and 4R x 61M. Widely used as a roasting ear variety. Ears of medium size, very uniform in shape and grain character, with good husk coverage. Kernels are tight set, of medium size, not hard. Matures in about 120 days. This hybrid has been successfully grown in most all sections of Texas, Oklahoma, Arkansas, and Louisiana.



**WATSON HYBRID NO. 18 (Yellow)**—A yellow double cross hybrid produced by combining the two single crosses 173D x 203 and 127C x 132A. This hybrid produces rather large, slightly tapering ears, with large, soft, deep yellow kernels. Results so far indicate this hybrid may be expected to give yields similar to those of No. 12. Matures in about 120 days. This hybrid is very popular due to the excellent appearance and quality of seed and its satisfactory performance in most sections of the Southwest.



**WATSON HYBRID NO. 12 (Yellow)**—A double yellow cross hybrid produced by combining the two single crosses 127C x 132A and K4 x KYS. This hybrid, in tests throughout the state, has given an average increase in yield of approximately 27 per cent over the standard open-pollinated varieties. It is exceedingly uniform in type, having ears of medium length and circumference. The grains are rather small but medium in texture. On good soil with ample moisture this hybrid gives a very high yield. Matures in about 120 days. This has been one of the top yielding hybrids throughout the Southwest when adequate rainfall and fertility prevail.

## Perfection Brand POULTRY SUPPLIES

### PEAT POULTRY LITTER

Vacuum Cleaned—Saves Time, Labor, Money

It is a natural absorbent, capable of taking up and holding four or five times as much moisture as straw, shavings or sawdust. It is harmless to birds if eaten by them. It provides a resilient cushion over the floor so that birds will not develop bumble foot.

It reduces fire hazard. It requires no breaking up, is easy to spread, and may be left in the poultry house for several months. Peat Moss is one of the best humus or mulch products known to horticulture, and with addition of poultry droppings it becomes a fertilizer of the finest type.

### SERVALL POULTRY LITTER

A farm product made from sugar cane. Dustless—Odorless—Absorbent—Sanitary—Bright—No Dusty Eggs and Fixtures—Keeps Eggs Clean and Salable—Light Color Improves Illumination—Never Any Bare Spots—Does Not Mat or Pile Up. Booklet on request.

### GLASS PAN FOUNTAIN

For Mason Jars



Drinking pan heavy molded glass with smooth edge. Mason Jar screws into metal clip and is held firmly in position when clip snaps over outer edge of pan. Jar and clip quickly detached from pan. Ideal for feeding medicated water or buttermilk to chicks. They can't get into the pan and drown. Jar not furnished.

No. B25—Each, 10c; 1 doz., \$1.10.

### BROODER THERMOMETER

50c each, postpaid

### ASSORTED COLORED CELLULOID LEG BANDS

Dozen, 15c; 50 for 50c; 100 for 70c.

**BANDETTES**—The best colored Celluloid Leg Bands. Spring clip pattern. Neat and jointless appearance. Double numbers easy to read. 25c per dozen; \$1.50 per 100. Packed in boxes. State what size wanted when ordering.

**DOUBLE NUMBER PIGEON BANDS**—Same style as Economy Double Number.

Dozen, 25c; 100, \$1.50, postpaid.

### CRYSTAL GLASS CHICK FOUNTS

Quart jar all-glass Mason pan, 12c each, \$1.30 doz.

1 gallon with base, complete, 70c each.

2½ gallon with base, complete, \$1.80 each. Extra glass base for 1 gal. and 2½ gal., 38c each.

## TIME TESTED REMEDIES FOR USE ON DAIRY FARMS

### KOW KARE

It has many uses on the dairy farm, its supply should never be permitted to get low. It is recommended for scouring, loss of appetite, bunches; especially favorable in cases of possible or threatened abortion. Widely recommended for barrenness, for retained afterbirth, for milk fever. There is no better medicine for cows. A handy book, "The Home Cow Doctor," mailed on application.

Kow Kare, large size pkg., \$1.25; medium size, 65c.



Easy to apply. Quick to act. Stops "pink eye" losses.

A 5-gram bottle—enough to treat 30 to 40 cases—\$1.00



### BAG BALM

For all diseases of udders and teats, such as caked bag, sore teats, bunches, chapping, cuts or inflamed parts, you can use this remedy with perfect safety; positive results in every case. The use of Bag Balm will make decidedly easier milkers of your herd.

Price: 60c per can.

### BAG BALM DILATORS

Scientifically shaped to the correct normal position of the delicate tissues of the muscles of the teat canal. Non-irritating. Fluted shaft retains correct amount of Bag Balm to promote rapid healing. 25 Dilators packed in Bag Balm for 60c.

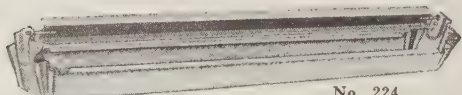


# Hudson Poultry Feeders and Fountains

## Kleen-Ezy Feature

Examine any article of Hudson equipment. You'll never find rough, sharp angles—never folded or crimped edges in which feed can pack and sour.

### FEEDERS



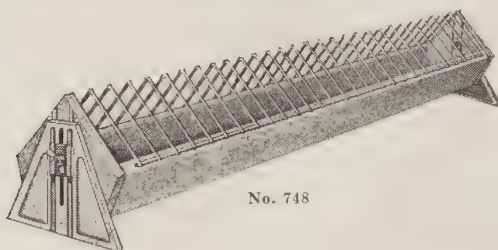
No. 224

No. 224—24-inch, 4-point guard reel.....Write for Prices



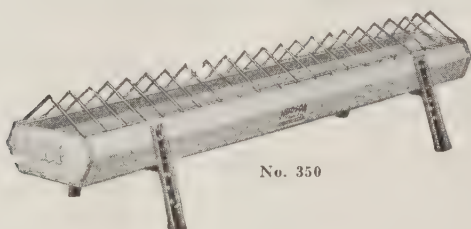
No. 6360

No. 6360—36-inch, 4-point guard reel, adjustable legs.....Write for Prices



No. 748

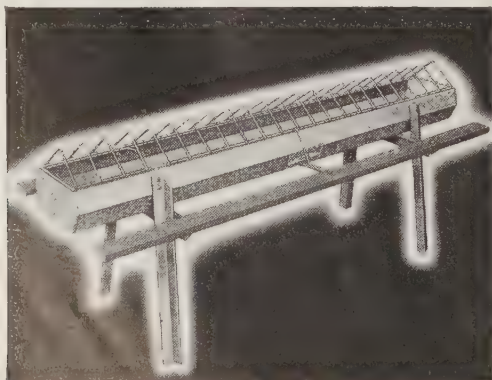
No. 748—48-inch length. Grill wires spaced 1½ inches on center. ....Write for Prices



No. 350

No. 350—Five-foot with 10-inch legs. Capacity 40 lbs. Intermediate feeder .....Write for Prices

No. 548—48-inch length. For two weeks' old chicks, broilers and turkey poults. This new larger feeder has fully adjustable metal stands and large fully adjustable four-blade balanced reel. Adjustable to 4 positions .....Write for Prices



### FLOCK FEEDER

No. 255—5 feet long. Trough 9 inches wide, 4½ inches deep. Holds 40 lbs. Wires spaced 2½ inches. The hinged grill is an extra convenience. 16-inch steel legs.....Write for Prices



No. B-35

B-35—Clear glass used on Mason jar.

G-25—Galvanized fruit jar fount. ....Write for Prices



No. G-25

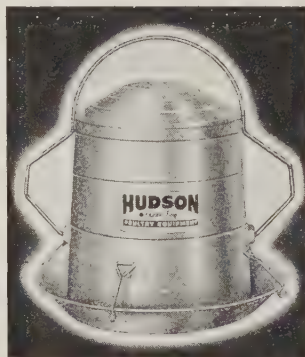


No. A-8

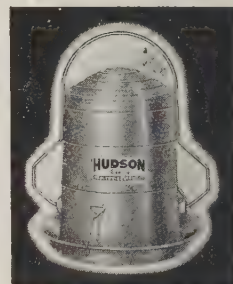
A-8—1 gallon galvanized snap-on pan. Diameter 9 inches, height 8½ inches.

Write for Prices

C-3—3-gallon galvanized. Diameter 11 inches, height 12½ inches.



No. C-3



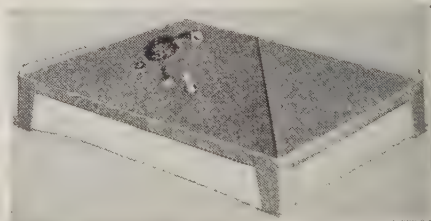
No. C-5

C-5—5-gallon galvanized. Diameter 16 inches, height 14 inches.

C-3 and C-5—the bail is reversible and top part of pail forms a pail which may be cleaned, filled and carried about at will.

Write for Prices

New Hudson  
Electric-Hen for  
Carefree Brooding



Easy to Use, Convenient. Handy inspection door. Plenty of room inside for feeders and fountains up to 2-gallon size. Detachable heavy duck curtain is sanforized, won't shrink. Adjustable legs allow extra head room as chicks grow. Hover slopes to prevent roosting. Shipped partly set up in carton, complete directions for setting up included. Plugs into 110-volt A.C. socket. Complete with cord and plug. Just a few simple bolts to assemble. Revolving reel painted red, prevents chicks from roosting.



# GARDEN ITEMS That You Will Need

## Kryocide

REG. U. S. PAT. OFF.

### NATURAL CRYOLITE

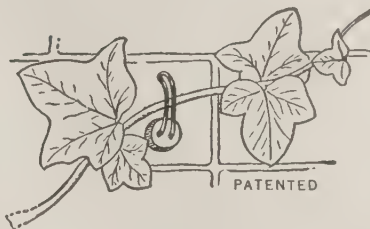


Vegetable gardeners will appreciate the new "Kryocide" (natural Cryolite) and "Kryocide" D-50 (ready mixed dust with sulphur). Finely micronized for thorough application.

"KRYOCIDE" (Straight) is the unmixed, finely pulverized NATURAL CRYOLITE to be used in a water spray, in mixed dust or as bait in vegetable gardens and on certain shrubs. Highly effective in controlling many chewing insects. Easy to apply. Safe. Proved by years of use by big commercial growers.

Price: 1 lb. 35c.

## WAYWARD VINE GUIDE



For training and supporting IVY and other vines on brick, stucco, stone and cement walls, without defacing. No nails. No holes.

Per box of 25, 90c, including cement.

## SUDBURY SOIL TEST KITS

Leading agricultural colleges and authorities urge the testing of soil. Because plants, like animals, require food in order to live and flourish, sufficient plant food in proper quantities must be furnished them.

### HOME GARDENER'S KIT Model D

A 20-test kit. Tests for nitrogen, phosphorus, potash and acidity. Complete instructions and data on plant needs.

Price: Each, \$2.00, postpaid.

### JUNIOR PROFESSIONAL MODEL

Makes 50 individual tests for nitrogen, phosphorus, potash and acidity. Helpful chart shows need of lawn grasses, 74 flowers, 50 vegetables. Inexpensive refills make your kit a permanent investment.

Price: Each, \$4.75, postpaid

### HORTICULTURAL SOIL TEST KIT

Model B

For the farmer or grower whose requirements do not call for the larger professional equipment. Tests for same elements as other kits.

Price: Each, \$9.75, postpaid.

### DELUXE MODEL

Cased-in instrument type mahogany finished box. Contains test tube rack, extra test tubes, funnels and filter paper so as to make testing easier and results immediate.

Kits contain 12 times as much soil testing solution as in the \$4.75 kit.

Price: Each, \$22.50, postpaid.

## "CYCLONE" SEED SOWER



**THE CYCLONE SEEDER** — Sows all kinds of grain and seeds perfectly—oats, cow peas, millet, etc.

Each \$2.35, postpaid.

## WOOD VENEER PLANT BANDS

For Greenhouse and Hotbed Use

These plant bands are ideal for growing all kinds of early plants, such as tomato, pepper, cabbage and all kinds of flower plants.

They come in several sizes, 2x2x2, 3x3x3.

Write for Prices

You too, can have SURE CROPS

## 3 weeks earlier TO MARKET



**HOTKAPS** — strong little hothouses—completely protect your plants from destructive frost, storms and insects. Increase yield 18% to 51%, ripen crops 3 weeks earlier, bring highest prices and premium profits. Quick, easy to set. Costs less than a penny a plant—increased profits more than pay for them. Millions used by successful growers. Crop failure is costly—**HOTKAPS** Protection is cheap!

## Hotkaps

|                             |        |
|-----------------------------|--------|
| 25 Home Garden Package..... | \$ .60 |
| 100 Pkg. with Setter.....   | 2.20   |
| 250 Pkg. with Setter.....   | 4.15   |
| 1000 Pkg. with Setter.....  | 12.00  |

Ask for price on larger quantities.



## LAWNETTE SPREADERS

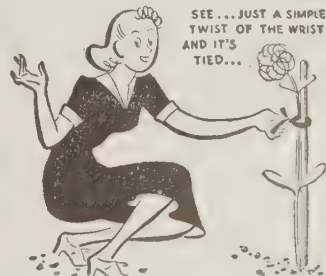
For evenly spreading Plant Foods and Grass seed. All sizes are adjustable.

**No. 15.** Spreading width 14 in. Holds 15 lbs. of plant food, enough for 400 square feet. 6 1/2 in. steel disc wheels.

**No. 115.** Spreading width 16 in. Holds 30 lbs. of plant food. 9 1/2 in. steel disc wheels.

**No. 215.** Spreading width 24 in. Holds 75 lbs. of plant food. 12 in. double disc wheels.

Write for Prices



SEE... JUST A SIMPLE TWIST OF THE WRIST AND IT'S TIED...

## 'TWIST-EMS'

The handy plant tie. For tying up annuals shrubs, vines and for arranging flowers. 250—8-inch ties, 35c.

**PENSALCO Live Stock Spray**—50% DDT wettable powder. For the control of flies, lice and mosquitoes. For use on cattle, sheep, hogs, horses and other live-stock. For use as a residual spray for barns, hog pens and milk houses.

2 lb. pkg., \$2.00 postpaid.

Ask for prices on larger quantities.



## GATOR ROACH HIVES

The Easy, Clean Way to Kill

ROACHES, SILVERFISH, WATERBUGS, CRICKETS

Gator Roach Hives are sanitary, open end fibre tubes, containing a specially made gum that roaches, silverfish, waterbugs and crickets eat with relish but results in their certain death. They come prepared ready to use. There is nothing to mix, spray or dust. All the user has to do is put the hives out where they will be accessible to the insects.

Pkg. of 3 large Hives, 35c, postpaid.



## "DOGZOFF"

Protect Your Evergreens, Trees, Shrubs and Plants from Dogs, Cats, Moles and Rabbits

There is nothing offensive to humans about DOGZOFF. Sprayed directly underneath evergreens, DOGZOFF repels dogs without any harm to the dogs, or the trees and shrubs themselves.

3-oz. pkg., 60c. Postpaid, 75c.

## PALCO PETE'S MULCH

Amends the SOIL.

When spaded in Improves soil structure. Serves to loosen heavy soils and bind light sand soils. Assists in conserving moisture.

AS A MULCH, HELPS

Reduce weeding, cultivation and watering. Protects roots from temperature changes. Ask for special circular.

Price: per 3 1/3 cubic ft. bag, \$2.25.





# Disinfectants, Fertilizers and Plant Foods

## NEW IMPROVED CERESAN



A low cost disinfectant dust for Wheat, Oats and Barley. Controls certain seed-borne diseases. Is easily applied.

4-oz. can, 30c; 1-lb. pkg., 80c.

## ARASAN

For corn, sorghums, peanuts, and most vegetables. Usually reduces losses from seed decay and damping off. Two way action, as a seed disinfectant, and as a protection against seed-borne organisms.

1 oz. pkg., 16c; 8-oz. can, 80c; 4-lb. can, \$5.16.



## NEW IMPROVED SEMESAN, JR.

For Field and Sweet Corn

The organic mercury dust disinfectant for the control of Diplodia, Gibberella and Basiporiom root rots; also for the prevention of seed rotting of early planted corn. Is quickly and easily applied, is harmless to the seed and does not appreciably slow up the rate of planter drop or prevent accurate planting.

Price: 1 1/2-oz. pkt., 15c; 12 oz., 56c.



## SEMESAN

For Vegetables and Flower Seeds and Bulbs

The chlorophenol mercury disinfectant for combating many diseases carried on seeds, bulbs, corns, roots, or tubers of flower, vegetable and nursery crops. Reduces seed rotting and damping-off of seedlings. Applied either as a liquid or as a dust. Used as a liquid treatment for controlling "Brown Patch" of lawn and golf green grasses.

Prices: 1/3-oz. pkt., 10c; 2 oz., 40c; 12 oz., \$1.88.



## SEMESAN BEL

For White Seed Potatoes

The organic mercury dip disinfectant for the control of scab and Rhizoctonia carried on seed white potatoes. Quick, easy dip treatment that eliminates labor and loss of time required by 1 1/2 or 2-hour soak treatments. One pound treats from 60 to 80 bushels of seed potatoes at the cost of 1 1/2 to 3 cents per bushel.

Prices: 2-oz. pkg., 30c; 1 lb., \$1.65; 4 lbs., \$5.70.



## SHEEP MANURE

A natural plant food. It is easy to get results with sheep manure because it feeds plants nature's safe way. Sheep manure is pure manure, highly concentrated with all weed seeds killed. It contains no filler or chemical mixture and is safe to use on all plants.

Directions for use on lawns, flowers, shrubs, trees and vegetables with each bag.

Write for Prices

## ADCO

(Registered Trade Mark)

Mixed with leaves, cuttings, vines, weeds, straw, cornstalks, etc., ADCO converts them into rich, real manure, sanitary, odorless, and free from weeds. This artificial manure is real manure, not a mere compost. It is fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, etc. The process is perfectly simple and not at all laborious.

Home Gardeners, by using their refuse, can now have plenty of manure at low cost and little trouble.

25-lb. bag, \$2.25.

## PEAT MOSS IN THE GARDEN

Soils which are not naturally good, because of too much sand or gravel, which lack life and vigor, or are stiff, hard clay, difficult to work, cold and uncongenial, can readily be corrected by the addition of generous quantities of granulated peat moss.

Peat moss is harmless. It will not burn or injure the plants, regardless of the amount used; it is also odorless, pleasant to work with and when used as a mulch, adds to the neatness and attractiveness of the garden.

For lawns, for preparing the soil for garden beds, seed flats, greenhouse benches, for rooting cuttings, as a summer or winter mulch peat moss is a ready and efficient aid, truly nature's gift to gardeners.

Write for Prices

Free Booklet Mailed Upon Request.

## Potted Plants

Concentrated, complete, balanced Plant Food Tablets. Now contain Vitamin B-1 in proper, effective, measured amount. No odor, no mess. Always fresh and potent, ready for use, and will produce startling results.

Pkg. of 10 tablets, 10c; 30 tablets, 25c; 75 tablets, 50c, postpaid.



## FULTON'S PLANTABBS PLANT FOOD TABLETS PLUS B1

## ANTROL

For sweet-eating ants—the kind that infest the house and are frequently seen on plants and trees. This is a complete system adapted to any size house, composed of small glass containers and special Antrol syrup. The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.



## TWO TYPES OF ANTROL SETS

REGULAR consists of 4 water and dirt-proof glass containers and one 4-ounce bottle of Antrol Syrup, enough for two complete fillings.

Price: 60c per set.

READY-FILLED consists of 4 special glass "feeders" filled with regular Antrol Syrup.

Price: 40c per set.

Any number of Antrol Ready-Filled Feeders may be purchased separately at 15c each.

## SNAROL

SNAROL—for snails, cutworms, slugs, grasshoppers, sow-bugs, earwigs and other garden pests. This is a ready prepared meal that you simply broadcast about the garden on the ground under the vegetables. The pests eat this meal and are quickly destroyed. Snarol is non-injurious to vegetation.

1 lb. pkg., 25c; 2 1/2 lb. pkg. 50c; postage extra.

## RAT AND MOUSE EMBALMER

25c and 50c packages.

The 50c package is sufficient for 500 square feet of floor space.

## KRO—KILLS RATS ONLY

Ready mixed—contains most attractive rat bait known, mixed with red squill powder, oven-dried under the special "Connable Process."

6-oz. pkg., 35c; 24-oz. pkg., \$1.00, postpaid.

## ROOTONE

Reg. U. S. Pat. Off.

ROOTONE is a root-forming stimulant when applied to seeds, cuttings and bulbs. It is a powder, and gets its root-forming activity from the synthetic plant hormones or growth substances which it contains. It is not a fertilizer or plant food. It is easy to use. ROOTONE stimulates the natural tendency for roots to form on slips or cuttings, so that rooting takes place in much shorter time, heavier root systems are formed, and fewer cuttings die from diseases.

1/4-oz. pkg., 25c; 2-oz. jar, \$1.00; 1-lb. can, \$5.00.

## TRANSPLANTONE

Reg. U. S. Pat. Off.

A Vitamin-Hormone Stimulant for Plants  
Invigorates Old Roots—Multiplies New Roots  
Reduces Wilting  
Reduces Loss in Transplanting

TRANSPLANTONE is a water soluble powder containing Vitamin B-1, plus certain plant hormones which are active in root formation. The hormone initiates or forms roots while the Vitamin B-1 chemicals are necessary for their continued growth.

1/2-oz. can, 25c; 1-oz. can, 50c; 3-oz. can, \$1.00; 1-lb. can, \$4.00.

## FRUITONE

REG. U. S. PAT. OFF.

Stops Premature Drop of Flowers, Leaves, Fruit.

FRUITONE is a powder containing several hormones, plus an effective wetting agent for securing thorough coverage.

Stops pre-harvest drop of apples, pears, plums and peaches.

Spraying leaves of holly and other evergreens, especially Christmas trees, with Fruitone makes the leaves stay on two to three weeks longer.

For best set of tomato blossoms and a larger crop, spray blossoms once a week for the first four weeks after blooming starts. If the stronger solution (two teaspoons to one gallon of water) is used for the spray, most of the tomatoes will be seedless.

2 1/2-oz. pkg., 25c; 2-oz. pkg., \$1.00; 12-oz. pkg., \$5.00.

## WEEDONE

TRADE MARK

The new scientific weed killer. Kills Poison Ivy, Poison Oak, Bindweed, (Wild Morning Glory), Japanese Honeysuckle, and many other noxious weeds. Sprayed on the leaves it travels down to the root tips, killing the whole plant. Does not irritate the skin, contains no arsenic or chlorates, does not corrode metals, does not sterilize the soil. Just mix in water and spray.

6 oz. bottle (covers 300 sq. ft.) \$ 1.00  
1 qt. bottle (covers 1,500 sq. ft.) \$ 4.00  
1 gal. bottle (covers 6,000 sq. ft.) \$12.00  
5 gal. can (covers 30,000 sq. ft.) \$55.00

## TROWBRIDGE GRAFTING WAX

Is the best known Grafting Wax on the market. It is used for grafting, budding, top working, etc., of all kinds of fruit, ornamental trees, shrubs and vines.

1-lb. pkg. \$ .50  
1/2-lb. pkg. \$ .30



# Insecticides and Fungicides for Every Purpose

## DOW BRAND INSECTICIDES AND FUNGICIDES

The Dow Chemical Co. has always devoted a considerable portion of its time to research problems. The name "DOW" on a package of spraying material assures you of a uniform quality product. Write for Prices on Insecticides and Fungicides.

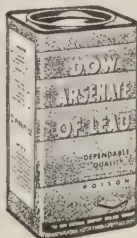


**DOW BRAND PARIS GREEN**  
Packed in ¼-lb., 1-lb. and 5-lb. packages.

### DOW ARSENATE OF LEAD

Dow Arsenate of Lead is the safest and most reliable insecticide available for the control of most leaf eating insects.

Packed in ½-lb., 1-lb., and 4-lb. packages.



### DOW BORDOW

Bordow is a copper fungicide developed by Dow for use on fruits and vegetables. Bordow can be used for any purpose for which bordeaux mixture is recommended.

Packed in 1-lb. and 4-lb. packages.



### DOW BRAND MAGNESIUM ARSENATE

Dow Magnesium Arsenate is widely used to control the destructive bean beetle because it does this job effectively without damaging the tender bean foliage.

Packed in 12-oz. and 2-lb. packages.



### DOW BRAND DRY LIME SULPHUR

It is especially recommended for use against fungous diseases, including apple and pear scab, powdery mildew, San Jose scale, and red spider.

Packed in 1-lb., 5-lb. and 12½-lb. packages.

ASK FOR DOW'S COMPLETE SPRAYING CHART. IT IS FREE ON REQUEST.



Roses that are permitted to become afflicted with insects and fungus diseases will lose their vitality and will not yield beautiful blooms.

If your roses have the scientific protection of TRI-OGEN, neither insects nor the dreaded Black Spot or Mildew will harm or defoliate them.

TRI-OGEN not only protects roses against all fungus diseases and insect pests, but it stimulates vigorous plant growth and assures healthy green foliage and luxuriant blooms.

... It is the most revolutionary discovery ever made in the history of rose culture. It is the most highly recommended product of its kind.

TRI-OGEN PROTECTION IS COMPLETE. No other spray is required. Therefore, it has been found to be the most economical spray for roses. Moreover, it is a great labor saver.

#### PRICES

|  |          |
|--|----------|
| A. Small Kit (makes 16 quarts).....    | \$ 1.50  |
| B. Medium Kit (makes 64 quarts).....   | 4.00     |
| C. Large Kit (makes 32 gallons).....   | 6.00     |
| D. Estate Kit (makes 128 gallons)..... | 20.00    |
| E. Economy Kit.....                    | Each 90c |

A Product of OGEN Laboratories and Experimental Gardens

### DENDROL

Dendrol Dormant Spray is a carefully refined, highly specialized soluble (miscible) oil for the specific purpose of killing insects attacking trees and shrubs. Dendrol is easy to use. It pours readily in any weather, mixes easily with any water, disperses freely to form a stable, milk white emulsion of uniform density, and has high covering power. Especially recommended as a dormant spray for San Jose and Oyster Shells scale.

Ask for prices.

### PERFECTION SPRAY

General contact spray for aphids, red spider, thrips, midge, mealy bugs, leaf hoppers and white fly. Not to be used on tender annuals during hot weather.

2-oz. bottle, 25c; 8-oz. bottle, 75c.

### POISONED WHEAT

Sure death to rats, mice, gophers and moles. Put a little of the wheat in a box, pan or saucer in a convenient place where the rats, mice, etc., can find it; they will do the rest.

2-oz. pkg., 15c; 5-oz. pkg., 30c; 15-oz. pkg., 60c.

## KILL THE PEACH TREE BORER BY USING PARADOW

The borer feeds actively in the fall, spring and summer months, and lies dormant in the winter. It attacks the soft inner bark usually just beneath the ground and sometimes along the larger roots. The presence of these pests is indicated by masses of gum mixed with brown frass or "sawdust" exuding from the injured trunk. One treatment per year, preferably in the fall, will usually be sufficient protection. Paradow penetrates the burrows of the borers. It is fatal to insects but harmless to man or beast unless taken internally.

1-lb. pkg., 40c.

## SUPERLA—Summer Spray Oil

This product was developed and is used primarily in combination with arsenate of lead or with nicotine for codling moth control. Superla is a clear fluid, or emulsive ready-mix type product, containing about 97% highly refined white oil. The balance of the ingredients consist of the distinctive type of emulsifiers.

Besides codling moth, Superla is also recommended for control of apple-leaf hoppers, red spider, grapeberry moth, pistol case bearer and strawberry leaf-roller.

For control of case bearer on pecans use 4 lbs. arsenate of lead, 3 quarts Superla, 1 pint Black Leaf 40 to 100 gallons of water.

Prices quoted on request.

## "43" FOR THE TREE (Plastic)

(A Scientific Tree Surgery Compound)

1-lb. pkg., 25c; 2-lb. pkg., 45c;  
10-lb. pkg., \$1.50.

A cut or broken limb soon becomes diseased and the tree quickly dies. But let "43" work for you. Simply remove any decayed wood and fill the wound with this antiseptic, healing preparation. Anyone can quickly and easily doctor their trees.

"43" for the Tree is a black plastic material composed of about 18 ingredients recognized as an aid to expert tree surgery work. It makes easy the natural growth of the tree as it conforms rather than binds the limb or trunk. "43" forms a waterproof dressing over the wound and checks disease.

Will not sag or run but is light in weight and remains firmly in place. Can be applied all months of the year.

## SABADILLA

A new insecticide for the control of squash bugs. Used as a dust. Highly recommended by Oklahoma A & M College.

1-lb. pkg., 40c; 5-lb. pkg., \$1.75, postpaid.

## FAIRMOUNT WEED KILLER

Destroys weeds, poison ivy and all vegetation. Highly concentrated, stands dilution with 40 parts of water.

Paths, roadways, borders, gutters, etc., can be kept free from wild grass, vines, etc., by the use of Hammond's Weed Killer. It can be used to clean up areas which have become overgrown. A few rains wash the ground clean and it is then ready for cultivation.

Quart cans, 75c each; 1 gallon cans, \$1.50 each.

## GET IN PLenty OF INSECT AMMUNITION . . . YOU WILL NEED IT EARLY AND OFTEN

**SULPHUR**—Fine ground for dusting vegetable and flower plants.

Lb., 10c.

**WETTABLE SULPHUR**—An extra fine prepared sulphur. Mixes readily with water in combination with Lime, Arsenate of Lead, etc., and stays in suspension.

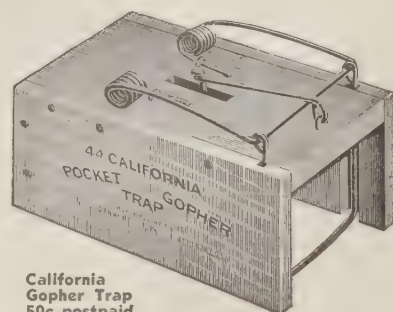
Lb., 10c.

**HYDRATED LIME**—For mixing with sulphur in making Lime-Sulphur solution.

10-lb. bag, 25c; 40-lb. bag, 45c.

**TOBACCO DUST**—1% Nicotine. For round worms in poultry use 2 pounds per 100 pounds of mash. Also is used as a dust for lice on plants.

Lb., 10c.



California  
Gopher Trap  
50c postpaid



# Insecticides and Fungicides for Every Purpose



**CALSUL Destruxol Emulsion**—A combination of lime and sulphur (Polysulphide) and oil in the form of a perfectly blended stable emulsion. Effective against Leaf Curl on peaches. Can be used as a dormant spray but can be used even more effectively

after plant life has started to function, thus replacing the dormant spray.

16 oz., 95c; 1 gal., \$2.25.



**KOPPERSOL**—A combination of oil, ether and copper. An effective fungicide for the control of blight, rust, black spot, mildew and other fungus diseases.

8 oz., 75c; 16 oz., \$1.15; 32 oz., \$1.85; 1 gal. \$4.25.



**SUPER DESTRUXOL Emulsion**—A stable oil emulsion containing the highest grade of vegetable, mineral and organic oils combined with free nicotine. Controls insect life by suffocation, penetration and contact. Effective against mealy bug, wooly aphis, scale, red spider, aphids and thrips.

8 oz., 65c; 16 oz., \$1.15; 32 oz., \$1.75; 1 gal. \$4.00.

**SLUG-EM**—A new and highly effective control for snails and slugs. Attracts and kills.

16 oz., 30c; 2 1/2 lb. 55c.



**We have a Complete Stock of Insecticides and welcome inquiries for those not listed.**



**LAWN-A-GEN**—A soil disinfectant. The only product combining ether and metallic copper soluble in water. Effective against underground infestations. Can be used where plants are growing or where seeds are in a state of germination, without injury if used as

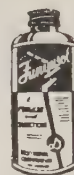
directed.

4 oz., 65c; 8 oz., \$1.15; 16 oz., \$1.80; 32 oz., \$3.00.



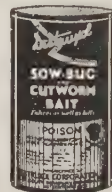
**BORER-SOL**—An ether non-oil emulsion for the elimination of Borers from trees or shrubs. Non-injurious to plant life.

4 oz., 45c; 8 oz., 70c; 16 oz., \$1.25; 1 gal. \$4.50.



**FUNGUSOL Emulsion**—A combination of oil, ether, copper and free nicotine. A spray effective against sucking insects and fungus diseases. An excellent spray for roses and delicate flowers and plants since it leaves no unsightly residue.

4 oz., 65c; 8 oz., \$1.00; 16 oz., \$1.40; 1 gal., \$5.50.



**DESTRUXOL SOW BUG AND CUT WORM BAIT**—

A bait combining the natural food of the sow bugs and cut worms along with a killing agent. A definite and effective remedy for the so-called "Pill Bug."

8 oz., 30c; 16 oz., 55c; 2 1/2 lbs., \$1.10.

**Destruxol PYRETOXIDE DUST NO. 15 B**—Is made without sulphur and therefore can be used on melons, cucumbers and other vine crops which cannot stand sulphur. Highly effective against squash bugs and other chewing insects.

16 oz., 40c; 2 lbs., 75c; 5 lbs., \$1.65.



**Destruxol BIRDS-OFF**—

A dust which keeps the birds away from ripening fruit and berries as well as young seed and plant beds. Non-poisonous.

16 oz., 40c; 32 oz., 70c.



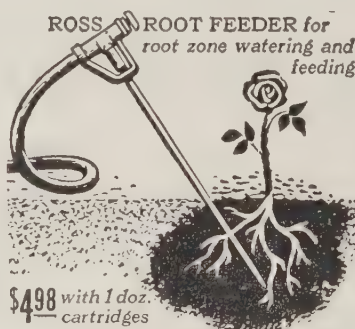
**Destruxol PYRETOXIDE DUST NO. 15A**—A

dust containing the new and spectacular Piperonyl cyclohexenone. Effective against sucking and chewing insects as well as mildew. Can be used on vegetables and

other food crops since it leaves no poisonous residue.

16 oz., 40c; 32 oz., 75c.

## FERTILIZE AS YOU WATER



\$4.98 with 1 doz. cartridges

Extra Cartridges \$1.00 per dozen

The ideal way to properly nourish your lawns, fruit trees, berries, shrubs and roses. Order NOW for immediate delivery.

## POULTRY FEEDS and SUPPLIES

### CARBOLINEUM

Used for Three Distinct Purposes

1. Preserves wood everywhere against rot and decay and adds at least 100% to the life of fence posts, poles, sills, floors, bridge timbers, porches, wood imbedded in concrete, etc.

2. Kills Chicken Mites in poultry houses. Apply once a year. **GUARANTEE**—We guarantee that one thorough application of Avernarius Carbolineum either by brush or sprayer to the interior walls, dropping boards, roosts, etc., to such buildings, after a previous cleaning and no matter whether they are of wood, tar paper, or plaster, will exterminate mites in the same FOR A WHOLE YEAR.

3. Avernarius Carbolineum assures positive protection for wood against the ravages of Termites, White Ants, and all other destructive vermin. Avernarius Carbolineum spreads quickly and effectively. A little goes a long way.

1-gal. cans, \$1.50. Ask for quantity prices.

### STONEMO GRANITE POULTRY GRIT

There is a great difference in the various chicken grit. The best poultry grit must be hard as flint, rough, so as to grind, or chew, all food consumed. The food as it passes through the gizzard must be ground finely, to be digestible—ground very much like corn grain is ground between flinty stones to make cornmeal. A lack of hard, insoluble grit in your flock will induce feather pulling, cannibalism, litter eating, indigestion, improper use of feed; consequently light weight and poor production.

We carry this in three sizes, Chick, Pullet and Hen.

25-lb. bags, 35c; 50-lb. bags, 60c; 100 lbs., \$1.00, f.o.b. Tulsa.

**PILOT BRAND OYSTER SHELL.** Chemical analysis, together with the reports from experienced poultry men, show that ordinary grain and green food supplied to the laying hens do not contain enough lime for egg shells.

Crushed oyster shells will supply this lime, if kept continually before the fowls, trusting them to eat the amount necessary.

25 lbs., 35c; 80 lbs., 90c.

### HARDWOOD LUMP CHARCOAL

For filtering, and for burning in steak grills. Lb., 6c.

**STEAMED BONE MEAL.**

**MINERAL GRIT FOR PIGEONS.**

**TABACCO STEMS**, for pigeon nests, per lb. 10c.

**EPSOM SALTS.** Lb., 10c; 10 lbs., 60c; 100 lbs., \$4.50.

**TABACCO DUST.** Lb., 10c.

**DRIED BUTTERMILK.** Ask for prices.

**RABBIT PELLETS WITH ALFALFA.** Ask for prices.



# POULTRY FEEDS and REMEDIES

## PERFECTION BRAND POULTRY FEEDS

All of our Perfection Brand Mashers are now fortified with BORDEN'S RATION-AYD.

Borden's Ration-ayd derives the nutritive factors of the full B-G complex from two of the most dependable sources, whey solubles of milk and fish liver and glandular meal.

In addition, Borden's Ration-ayd contains a protected Vitamin D (A. O. A. C. tested) from fish liver sources.

## PERFECTION MASHES

Chick Starter  
Growing Mash  
Turkey Starter and Grower  
Broiler Mash  
Egg Mash  
Calf Meal

Good feeds at reasonable prices. Ask for lowest market price when in the market for poultry feeds.

## MARBLEHEAD MINERAL

A streamlined mineral which contains essential ingredients necessary to well being, good reproduction, and greater feeding economy of domestic animals.

Check over the ingredients of Marblehead and you will know why it is such a valuable aid in livestock feeding. This is composed of Phosphorus, Calcium, Salt, Iron, Copper, Iodine, Manganese and Irradiated Yeast.

If used in mixed feeds, 3 lbs. per 100 lbs. is adequate. If you prefer, Marblehead Mineral may be fed in self hoppers, protected from the weather and kept before the stock at all times.

Per 100 lbs., \$2.50.

## SULFAGUANIDINE

For the prevention and cure of cecal coccidiosis in poultry, white scours in calves, necro in swine and coccidiosis in lambs.

1/4-lb. bottle, \$3.00; 1-lb. bottle, \$10.00, postpaid.

## LEE'S GERMOZONE

Marvelous for Poultry

The regular use in the drinking water every other day is a big factor in preventing disease among poultry.

12-oz. bottle, 75c; 32-oz. bottle, \$1.50.

## LEE'S FLU-KOFF EMULSION

12-oz. bottle, \$1.00

Lee's 64-page Book on Poultry Diseases mailed on request.

## LEE'S MULSION

An aid in colds and minor bronchial irritations of poultry and hogs.

4-oz. bottle, 50c; 12-oz. bottle, \$1.00; 32-oz. bottle, \$2.00.

## LEE'S TONAX

A TONIC AND APPETIZER FOR CHICKENS AND TURKEYS

Tonax has been formulated to aid some of the problems of growth and early maturity. In laying flocks its purpose is to help create a basis for healthy egg production, not to push eggs out of pullets unable to stand the strain.

12-oz. pkg. .... \$ .30  
2-lb. pkg. .... .75  
6-lb. pkg. .... 2.00

## LEE'S PICKPASTE FOR CANNIBALISM

It is greaseless and adheres to wounds. It is antiseptic and protects the wounds from dirt.

Prices: 6-oz. pkg., 60c; 2-oz. tubes, 25c.

## LEE'S VAPO-SPRAY

Treat the Whole Flock

Simply spray in the air of the henhouse at night. All the birds breathe the vapor of its healing oils.

Quart, 75c; 1/2 gal., \$1.25.

Ask for the lowest price when in the market for any of our poultry feeds.

## LEE'S GIZZARD CAPSULES

The common poultry worms are all intestinal, which means medicines must pass through the crop and gizzard before reaching them. Lee's Gizzard Capsules do not dissolve in the crop, but pass on through to the gizzard, where they are crushed, thus releasing the medicine.

At three months of age Chick Size Gizzard Capsules can be used if form infestation is apparent. All birds between four and five months should be treated with Pullet Size Capsules as a routine worm control measure. In heavy infestation, a second treatment with Adult Size Capsules at six months of age is often necessary. For hens over a year old, give Adult Size Capsules once in the spring and once during the moult in late summer.

Prices of Lee's Gizzard Capsules

|                                    | Env.<br>of 10 | Pkg.<br>of 50 | Pkg.<br>of 100 |
|------------------------------------|---------------|---------------|----------------|
| Adult (six months and older) ..... | .15           | .75           | \$1.25         |
| Pullet (four to six months) .....  | .10           | .50           | 1.00           |
| Chick (three to four months) ..... | .10           | .40           | .75            |
|                                    |               | Postpaid      |                |

## SODIUM FLUORIDE

For Chicken Lice

United States Government recommends new chemical. Destroys even young lice as they hatch.

Poultry raisers need guess no longer as to the best method of getting rid of poultry lice. After many tests, the U. S. Department of Agriculture has found Sodium Fluoride superior to any other preparation for this purpose. They say it kills both old and young lice, including unhatched lice present at the time of treatment. Full directions are on every can of S. F. for use in three ways, either by dip, dusting, or pinch methods.

Prices: 1/2-lb. can, 25c; 1-lb. can, 45c; 10 lbs., \$4.00, postage extra.

## DR. L. D. LEGEAR

Poultry and Stock Medicine

|  |      |
|--|------|
| <b>STOCK POWDER CONCENTRATE</b>        |      |
| 3/4-lb. pkg. ....                      | .25  |
| 1 1/8-lb. pkg. ....                    | .50  |
| 4 1/2-lb. pkg. ....                    | 1.00 |
| <b>COW PRESCRIPTION CONCENTRATE</b>    |      |
| 3/4 lb. pkg. ....                      | .25  |
| 1 1/8-lb. pkg. ....                    | .50  |
| 4 1/2-lb. pkg. ....                    | 1.00 |
| <b>HOG PRESCRIPTION CONCENTRATE</b>    |      |
| 3/4 lb. pkg. ....                      | .25  |
| 1 1/8-lb. pkg. ....                    | .50  |
| 4 1/2-lb. pkg. ....                    | 1.00 |
| <b>POULTRY PRESCRIPTION</b>            |      |
| 3/4 lb. pkg. ....                      | .25  |
| 1 1/8-lb. pkg. ....                    | .50  |
| 4 1/2-lb. pkg. ....                    | 1.00 |
| <b>POULTRY WORM POWDER</b>             |      |
| 1 1/2-lb. pkg. ....                    | .60  |
| <b>LICE POWDER</b>                     |      |
| 14-oz. pkg. ....                       | .30  |
| <b>DIP AND DISINFECTANT</b>            |      |
| 8-oz. bottle .....                     | .30  |
| 1-qt. bottle .....                     | .65  |
| <b>ANTISEPTIC POWDER</b>               |      |
| 1 1/4-oz. pkg. ....                    | .30  |
| 4-oz. pkg. ....                        | .60  |
| <b>UDDER OINTMENT</b>                  |      |
| 7-oz. pkg. ....                        | .70  |
| <b>LINIMENT</b>                        |      |
| 2-oz. pkg. ....                        | .30  |
| 6-oz. pkg. ....                        | .60  |
| <b>SCREW WORM KILLER</b>               |      |
| 3-oz. pkg. ....                        | .30  |
| 6-oz. pkg. ....                        | .60  |
| <b>ANIMAL AND BARN SPRAY 17.7% DDT</b> |      |
| 4-oz. bottle .....                     | .60  |
| 8-oz. bottle .....                     | 1.00 |

## PINJECTOL FOR PIN WORMS AND BLACKHEADS

The pin worm is recognized as a serious thing in the spread of blackhead. For this reason all pullets and turkeys should be wormed once a year with Pinjectol. Get our free folder, Pin Worms and Blackhead in Chickens and Turkeys.

12-oz. bottle, 75c.

## HTH 15

For Poultry Colds and Respiratory Ills

This well-known chlorine powder was developed by Mathieson scientists after years of research. With its properly balanced chlorine strength and its floating powder form, HTH 15 is the dry chlorine inhalant specially designed for effective dusting of poultry. It is easily applied with an inexpensive dust gun. Also used in the drinking water for chicks and adult fowls. Circular free on request.

1-lb. pkg., 50c; 3-lb. pkg., \$1.00, postpaid.

## WALKO REMEDY

Don't wait until White Diarrhea has taken half of your hatch. Prevent it. There is no place where the old adage, "A stitch in time saves nine," applies as well in getting ahead of disease. There is scarcely a hatch without some infected chicks. Don't let these few infect your entire hatch. Give WALKO in all drinking water for the first two weeks and you won't lose one chick where you have lost dozens.

Regular size, 50c; extra large pkg., \$1.00. The dollar package contains 2 1/3 times as much as the 50c package.

## B-K POWDER

Dry Expectorant Chlorine Powder

To help prevent the development of many winter poultry losses, birds and poultry houses should be kept dry. Dampness may lead to harmful results. Cleanliness is essential. B-K Powder is a dry dust having an "active chlorine" content, and does not add moisture to the atmosphere. When dusted over birds B-K Powder causes them to sneeze and cough, thereby helping to dislodge mucus from the upper breathing passages and prevent suffocation from strangulation. B-K circular free on request.

9-oz. bottle, 75c; 28-oz. bottle, \$1.50, postpaid.

## DON SUNG

Don Sung (Chinese for egg laying) is a scientific tonic which improves the hen's health, makes her stronger and more active and tones up the egg-laying organs.

Don Sung is easily given in feed, and costs nothing to try. It is used by thousands of successful poultry raisers the world over.

Regular size, 50c; large size, \$1.00; holds 3 times the 50c size. Special size, \$5.00; holds 6 times the \$1.00 size.



**"Black Leaf 40"**  
Kills Poultry Lice

|                     |        |
|---------------------|--------|
| 1-oz. Bottles ..... | \$ .35 |
| 5-oz. Bottles ..... | 1.05   |
| 1-lb. Bottles ..... | 2.42   |
| 2-lb. Tins .....    | 3.57   |
| 5-lb. Tins .....    | 6.70   |
| 10-lb. Tins .....   | 11.65  |



# PET SUPPLIES

## PERFECTION MEAT CEREAL DOG FOOD

For Dogs, All Breeds, and Puppies, All Ages  
THE COMPLETE FOOD



Perfection Dog Foods are scientifically made to combine the best ingredients in the proper proportion for the health of your dog. They are made to build up the vitality of a run-down dog—to develop strong and big-boned puppies—a wonderful muscle builder—and containing all the vitamins and nutritional food values to properly nourish and satisfy either the house dog or field trial champion.

Perfection is made of the following ingredients: Beef Meal, Dehydrated Meat, Bone Meal, Wheat, Corn, Rice and Bran, Soy Bean Flakes, Wheat Germ, Yeast, Cod Liver Oil, Powdered Milk, Kelp Meal, Barley Malt, Iodized Salt, Molasses, Charcoal and Spring and Durum Wheat Flour. Contains Vitamins A, B, C, D, E and G. Perfection Dog Food is made in two forms.

PERFECTION MEAT CEREAL is served with water, milk or gravy.

Write for Prices.

PERFECTION MEAT CEREAL CUBES. Ready to serve. In feeding these cubes, it is necessary for the dog to chew them, thus stimulating salivary secretions and aiding digestion. The chewing also keeps the teeth clean and the gums in good condition.

Write for Prices.

FRISKIES. Complete compressed Dog Food cubes. A complete food—the only food your dog needs.

Write for Prices.

PARD. A Swift and Co. product. Pard Dehydrated is a scientific combination of meat by-products with other wholesome ingredients, which provide a palatable and nutritious food for dogs and cats.

Write for Prices.

## DIXIE DOG-DYP

Made from Pine Oil. A flea killer, skin bracer, deodorizer and cleanser. Use 50 parts water to 1 part Dixie Dog-Dyp.

Quart cans, 80c each; 1 gallon cans, \$2.25, postage extra.

## REX WHEAT GERM OIL

A cold processed, biologically tested, stable wheat germ oil. A skin conditioner, an aid to breeding.

1-oz. bottle, 60c.

## CEDAR SHAVINGS

Excellent for dog beds. Pleasant odor and repels insects.

Large sack, 50c. About 6 pounds.

## CHAMPION DOG FOOD



Are clean enough for human consumption. Champion is composed of clean, sweet meats, 25 per cent more than in any other dog food, and the choicest of cereals, ground grains, minerals and cod liver oil; all blended in the proportion best suited to the needs of the dog. Being heavy with protein, the real essential basis of all dog foods, Champion is the most nourishing. It is truly the balanced ration in every sense.

Champion Kibbled Biscuits, lb., 15c.

## NUTRENA DOG FOOD

Granular and Cubes—both exactly alike as to formula . . . both biologically-tested and proved nutritious for all dogs of all ages and breeds.

Nutrena Dog Food is a dry, highly concentrated ration. Contains an abundance of important vitamins A, B, D and G . . . the vitamins so necessary for the good health, growth and reproductive powers of your dog.

Feed Nutrena in granular form with either water, milk or broth.

Write for Prices.

## CATNIP MICE

Cloth mouse filled with catnip. Cats and kittens frolic and cut up all kinds of antics when given a catnip mouse. It is a necessity for every family that keeps a cat or kitten. Very important that growing kittens have catnip.

15c each.

## SERGEANT'S DOG REMEDIES

Have been before the public for over half a century. Dog owners can rely upon Sergeant's Remedies at all times to be safe and effective and the last word in scientific treatment of canine ills. Sergeant's Book on Dogs mailed on request.

|  | Postpaid |
|--|----------|
| Mange Remedy .....   | \$ .65   |
| Condition Pills .....  | .60      |
| Sure Shot Capsules. For roundworms, pinworms and hookworms.....                    | .60      |
| Puppy Worm Capsules.....   | .60      |
| Tapeworm Remedy .....  | .60      |
| Arsenic and Iron Pills. A blood purifier. For treating blood and skin diseases.... | .60      |
| Canker Wash. For treating ear canker....   | .60      |
| Pepsin Tablets. For treating indigestion   | .60      |
| Eye Wash .....   | .60      |
| Carbolic Tar Soap.....   | .25      |
| Skip-Flea Powder .....   | .35      |
| Special Medicine .....   | 1.25     |
| Cod Liver Oil Capsules.....  | .60      |
| Liniment .....   | .60      |
| Mouth Wash .....   | .60      |
| Diuretic Pills .....   | .60      |
| Intestinal Astringent .....  | .60      |
| Laxative Capsules .....  | .60      |
| Nerve Sedative Medicine.....   | .60      |
| Skip-Flea Soap .....   | .25      |
| Pine Oil Disinfectant.....   | .75      |

## PULVEX

A Lice and Flea Powder

Some small animal owners, particularly those owning dogs, cats and poultry, prefer to dust them to get rid of lice and fleas rather than wash or dip them. In such cases we recommend Pulvex, a non-poisonous, odorless product, which is sure death to lice and fleas.

Price: 1 1/5 oz. pkg., sifter top, 25c each; 3 3/5-oz. pkg., 50c each.

## BEE SUPPLIES

DADANT'S FOUNDATION  
LEWIS BEEWARE

The Standard of the Beekeeping World. We carry a complete line in stock and will be glad to mail catalogue on request.

## The Famous MORTON METHOD of Home Meat Curing

7 1/2-lb. pkg. Morton's Sugar Cure, 70c.

2 1/8-lb. pkg. Morton's Sugar Cure, 25c.

2 1/2-lb. pkg. Morton's Tenderquick, 50c.

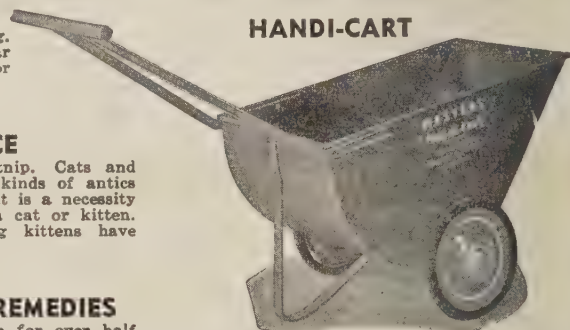
10-oz. pkg. Morton's Sausage Seasoning, 30c, postage extra.

Morton's complete 100-page Meat Curing Book, 10c each.

Morton's Meat Pump, \$1.50 each.

Morton's Meat Thermometer, \$1.00 each.

## HANDI-CART



A popular Utility Garden and Lawn two-wheeled barrow for easily handling garden or lawn tools, supplies and refuse. Quickly tipped forward for unloading. Well balanced.

The two wheels carry the entire load. Dual wheels prevent tipping when in loading position. Holds over two cubic feet.

\$8.75, F.O.B. Tulsa.

## DOES YOUR DOG SCRATCH?



Don't blame fleas, mange or diet. Two-to-one, it's Fungitch. SULFADENE eliminates "Fungitch" caused by mouldy weeds and grass. Circular on request.

4-oz. bottle, 98c.

## RED STEER Field Fertilizers

We carry complete stocks and will be glad to quote prices on request.

## STEAMED BONE MEAL

For animal feeding or fertilizer.

Lb., 10c; 25 lbs., \$2.00. Ask for prices on larger lots.

## Number of Plants to Acre at Given Distances

| Dis. apart      | No. Plants | Dis. apart      | No. Plants | Dis. apart      | No. Plants | Dis. apart      | No. Plants | Dis. apart      | No. Plants | Dis. apart      | No. Plants |
|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|
| 12 x 1 in.....  | 822,720    | 18 x 18 in..... | 19,360     | 30 x 6 in.....  | 34,848     | 36 x 12 in..... | 14,520     | 48 x 12 in..... | 10,890     | 60 x 48 in..... | 2,178      |
| 12 x 8 in.....  | 174,240    | 20 x 1 in.....  | 313,635    | 30 x 12 in..... | 17,424     | 36 x 18 in..... | 9,680      | 48 x 18 in..... | 7,790      | 60 x 60 in..... | 1,743      |
| 12 x 12 in..... | 43,560     | 20 x 20 in..... | 15,681     | 30 x 16 in..... | 13,068     | 36 x 24 in..... | 7,260      | 48 x 24 in..... | 5,445      | 8 x 1 ft.....   | 5,445      |
| 16 x 1 in.....  | 392,040    | 24 x 1 in.....  | 261,360    | 30 x 20 in..... | 10,454     | 36 x 36 in..... | 4,840      | 48 x 30 in..... | 4,856      | 8 x 3 ft.....   | 1,815      |
| 18 x 1 in.....  | 248,480    | 24 x 18 in..... | 15,520     | 30 x 24 in..... | 8,712      | 42 x 12 in..... | 12,446     | 48 x 36 in..... | 3,630      | 8 x 8 ft.....   | 680        |
| 18 x 3 in.....  | 116,160    | 24 x 24 in..... | 10,890     | 30 x 30 in..... | 6,970      | 42 x 24 in..... | 6,223      | 48 x 48 in..... | 2,723      |                 |            |
| 18 x 12 in..... | 29,040     | 30 x 1 in.....  | 209,088    | 36 x 3 in.....  | 58,080     | 42 x 36 in..... | 4,148      | 60 x 36 in..... | 2,901      |                 |            |



*More than*  
**50,000**

**SOUTHERN GARDENERS**

*have discovered*  
**South-Wise, South-Timed**

***Sun-up***

**The Garden and Home  
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FOR YOU**

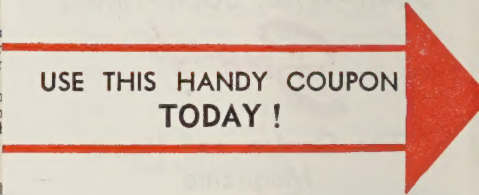


Here's **YOUR** Invitation  
to Join

*Sun-up's*

**BIG, SOUTH-LOYAL FAMILY**

USE THIS HANDY COUPON  
**TODAY !**



**SUN-UP**

Fourth Floor Moore Building  
San Antonio 5, Texas

# Hudson Sprayers and Dusters--The Standard of Value

The supply of Sprayers for the past few years has been very short. They will be in greater supply, but still below normal. Write for Prices.

Hudson compressed air sprayers will handle white wash, insecticides, fungicides and similar preparations efficiently.



## HUDSON PERFECTION SPRAYER

Big 6-inch opening insures easy filling, emptying or cleaning. Drains completely dry. Unusually large capacity and high pressure adapt it for any job. Open top, 4-gallon galvanized tank, easily cleaned. Automatic shut-off can be locked open for continuous discharge — instantly released by a touch of the finger.

Write for Prices.



## HUDSON CLIMAX SPRAYER

High pressure and ample capacity adapt it for all classes of spray work. Can be used with any agricultural insecticide, whitewash, etc. Embodies strength, safety, ease of operation and accessibility. Open top, 3 3/4 gallon galvanized tank. Automatic shut-off.

Write for Prices.



## HUDSON CLIMAX JUNIOR

Pump seamless tubing, seals into tank by means of 4 steel locking fingers controlled by malleable "D" pump handle. Cannot be removed before pressure is exhausted.

No. 241G — Galvanized tank, cap. 2 1/2 gallons, 7 1/4 x 16-inch tank; 1 3/4 x 14-inch pump; 24 inches high pressure spray hose; Perfection automatic shut-off valve which locks open for continuous spraying; 2-foot extension rod; angle spray nozzle; weight each 9 lbs. One in a carton. Write for Prices.



## Hudson Trombone Sprayer

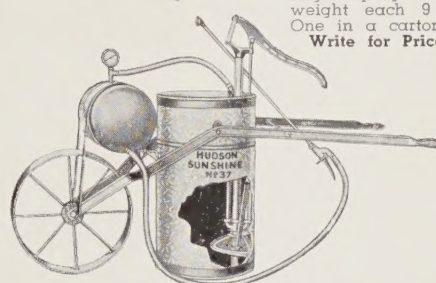
No. 133. Handles all liquid solutions and has a continuous discharge. May be used in an ordinary bucket or pail, half barrel or tank only by dropping the intake into the container. Develops up to 100 pounds pressure. Fitted with 3 feet of 1/2 inch hose, intake pipe and strainer.

Write for Prices.

## Hudson Flame Sprayer

Tank: Open top construction. All seams riveted and soldered. Tested to 100 pounds pressure. Pump: Fitted with oil proof gaskets; seals into tank by means of 4 steel locking fingers controlled by malleable "D" pump handle. Cannot be removed before pressure is exhausted. 48 inches of high pressure hose compounded to resist action of kerosene, fuel oil, etc.

Write for Prices.



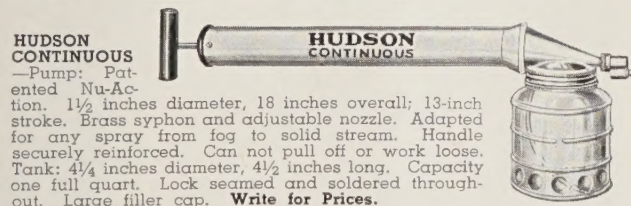
## HUDSON SUNSHINE SPRAYER

Wheel: 16 inches in diameter. Tire: 2-inch. Capacity: 12 1/2 gallons. Spray Hose: 6 ft. 3/8-inch high pressure. Shut-off Valve: Perfection automatic which locks open for continuous spraying. Discharge Equipment: 3-foot extension rod, angle spray nozzle for general purpose work.

No. 36—Weight each, 40 pounds.

Write for Prices.

No. 36R—With semi-pneumatic tire. Weight each, 45 pounds.



## HUDSON CONTINUOUS

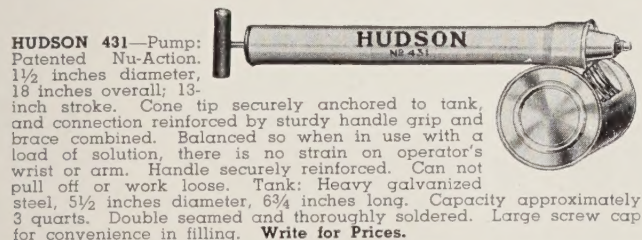
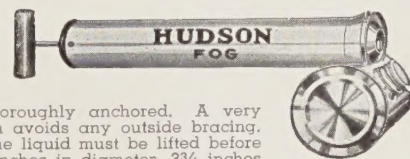
—Pump: Patented Nu-Action. 1 1/2 inches diameter, 18 inches overall; 13-inch stroke. Brass syphon and adjustable nozzle. Adapted for any spray from fog to solid stream. Handle securely reinforced. Can not pull off or work loose. Tank: 4 1/4 inches diameter, 4 1/2 inches long. Capacity one full quart. Lock seamed and soldered throughout. Large filler cap.

Write for Prices.

## HUDSON FOG—

Pump: 1 1/2 inches in diameter, 10 inches long. Recessed into top of tank and is thoroughly anchored. A very rigid construction which avoids any outside bracing. Shortens the distance the liquid must be lifted before vaporized. Tank: 3 3/8 inches in diameter, 3 3/4 inches long, capacity one full pint. Fitted with recessed drip cup and vent which prevents syphoning, leaking or dripping.

Write for Prices.



## HUDSON 431—Pump:

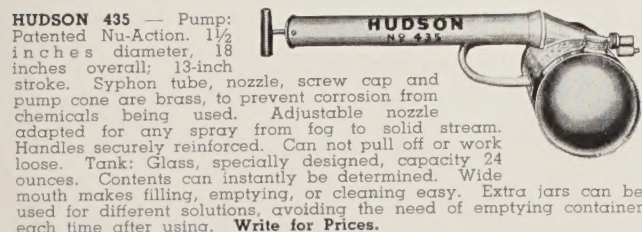
Patented Nu-Action. 1 1/2 inches diameter, 18 inches overall; 13-inch stroke. Cone tip securely anchored to tank, and connection reinforced by sturdy handle grip and brace combined. Balanced so when in use with a load of solution, there is no strain on operator's wrist or arm. Handle securely reinforced. Can not pull off or work loose. Tank: Heavy galvanized steel, 5 1/2 inches diameter, 6 3/4 inches long. Capacity approximately 3 quarts. Double seamed and thoroughly soldered. Large screw cap for convenience in filling.

Write for Prices.



HUDSON CADET—Pump: 1 3/4 inches in diameter, length overall 15 inches, 8-inch stroke. Fitted with Hudson plunger leather. Powder Reservoir: 1 3/4 inches in diameter, 5 inches long, with air valve to prevent powder getting into pump cylinder. Large filler cap fitted with strainer and discharge tube. Straight discharge nozzle.

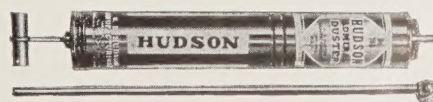
Write for Prices.



## HUDSON 435 — Pump:

Patented Nu-Action. 1 1/2 inches diameter, 18 inches overall; 13-inch stroke. Syphon tube, nozzle, screw cap and pump cone are brass, to prevent corrosion from chemicals being used. Adjustable nozzle adapted for any spray from fog to solid stream. Handles securely reinforced. Can not pull off or work loose. Tank: Glass, specially designed, capacity 24 ounces. Contents can instantly be determined. Wide mouth makes filling, emptying, or cleaning easy. Extra jars can be used for different solutions, avoiding the need of emptying container each time after using.

Write for Prices.



HUDSON DUSTER—Pump: Sturdily built. 2 3/4 inches diameter, 9 1/2-inch stroke. Threaded cap makes plunger completely accessible or removable. Powder Reservoir: 2 3/4 x 6 inches. Large filler screw permits easy filling, emptying or cleaning. Discharge Equipment: 24-inch extension tube with nozzle instantly adjustable for straight or angle discharge.

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